

GLOBAL IMPORT AUTO PARTS
AKA: STAG'S AUTO RADIATOR
FLD057973646
PRELIMINARY ASSESSMENT REASSESSMENT

1297

- A. SITE DESCRIPTION. The site is located at 941 N.W. 40th Avenue, Plantation, Broward County, Florida (Fig. 1). The facility operated as a radiator repair shop from, at least, 1975 to 1977 [1,2,3,8-12, 17-24, 27,28]. Since 1977, the facility has been used as a ceramics shop, a roofing business and most recently, an auto parts shop [8,9,30]. The site was reportedly inactive on 4/5/89 [8].

- B. DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS AND PERMIT VIOLATIONS. Steam cleaning and radiator flushing were performed in the facility parking lot [18,19,27]. Wastewater containing muriatic (hydrochloric) acid, iron, sludge, caustic soda (sodium hydroxide), and lead from solder was discharged at a rate of 120 gallons/day [2] into 2 french drain systems [1,2,3,9,17]. Overflow from the drainage system intermittently pooled on the surface of the parking lot [1,2,9,10,11,12].

The Broward County Pollution Control Board issued a Notice of Violation to the facility on 6/3/76 to address unlawful discharges of industrial waste into surface and groundwaters [1]. Numerous follow-up inspections were conducted on-site by Broward County, until operations were relocated next door in 1977 [8] and to Oakland Park in 1980 [21-24]. FDER observed facility conditions on 7/30/85 and 4/5/89 [8].

No information, concerning the operation of the ceramics, roofing or auto parts shops, is available [8,9].

- C. RCRA STATUS. The site has no RCRA status [25,26].

- D. NATURE OF HAZARDOUS MATERIALS. Lead is toxic, persistent and bioaccumulative. Kidneys, blood, gingival tissue, and gastrointestinal/central nervous systems can be affected through ingestion, inhalation and skin/eye contact [8,9,10].

Mercury is an experimental equivocal tumorigenic agent and a general protoplasmic poison which can affect the kidneys, central nervous system and gastrointestinal tract [13]. Toxicological effects are largely dependent upon the route of exposure and the chemical form of mercury involved [13-18].

Ethylene Glycol is toxic via ingestion and inhalation, however, percutaneous absorption may contribute to intoxication [14]. Toxic effects from inhalation are only likely to occur if the compound is heated [14]. Ingestion can result in depression, respiratory and cardiac failure, renal and brain damage, and death. A lethal dose is considered to be 100 ml [14,15].

Hydrochloric acid and sodium hydroxide are highly corrosive [13].

- E. ROUTES OF CONTAMINATION. Groundwater, surface water and direct contact are potential routes of exposure [8].

- F. POTENTIALLY AFFECTED POPULATION AND RESOURCES. The site is primarily underlain by 300-400 ft. of Pleistocene to Miocene sand and limestone, which comprise the shallow, unconfined Biscayne aquifer [6]. This aquifer is the sole-source of drinking water in Broward County [6]. Public water supply wells, serving the cities of Ft. Lauderdale (pop. 226,430 [5]) and Plantation (pop. 35,000 [5]), as well Broward County (10,608 connections in the District 1A area), tap the Biscayne aquifer within a 3-mile radius of the site (Fig. 1) [3-5]. The nearest potable supply well is located approximately 6146 Ft. South-Southwest of the site (Fig. 1) [3].

Potentially contaminated stormwater runoff could discharge into the Sunrise Canal (C-12), which is approximately 80 ft. north of the facility (Fig. 1). No surface water use has been identified for C-12, and no surface water intakes are within 3 downstream miles of the site [7].

Although a portion of the site is fenced, the fence appears to be in disrepair (FDER photographs -7/85), and a visibly stained area of the parking lot is not fenced [8].

- G. RECOMMENDATIONS AND JUSTIFICATION. A large volume of wastewater [2] containing potentially hazardous and persistent contaminants [1,13-15] were discharged into the sole-source Biscayne aquifer [6]. Subsequently the facility, for which no public sewer system has been provided, operated as ceramics and roofing shops [8,9]. The latter activities could have conceivably widened the variety of contaminants potentially discharged to the Biscayne aquifer. Because of the near proximity of municipal drinking water supply wells (Fig. 1) [3,4,5] and the considerable potential for the pollution of adjacent surface water (Fig. 1), a medium priority for a CERCLA Site Screening Inspection is recommended.

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT REASSESSMENT
Part 1 - Site Information and Assessment

I. IDENTIFICATION

01 STATE
FL

02 SITE NUMBER
D057973646

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common or descriptive name of site)
Global Import Auto Parts AKA: Stag's Auto Radiator [30]

02 Street, Route No., or Specific Location Identifier
941 N.W. 40th Avenue

03 CITY
Plantation

04 STATE
FL

05 ZIP CODE
33333

06 COUNTY
Broward

07 COUNTY CODE
011

08 CONG DIST
15

09 COORDINATES LATITUDE LONGITUDE
26° 08' 04" 080° 12' 11" 0"

10 DIRECTIONS TO SITE (Starting from nearest public road)
Follow US 441 in Plantation to the junction of Sunrise Blvd. The site is located southwest of the junction, behind the Amoco Service Station [8,30].

III RESPONSIBLE PARTIES

01 OWNER (if known)
Richard & Rita Case [31]

02 STREET (Business, mailing, residential) - City Hall
949 Hillsboro Mile

03 CITY
Hillsboro Beach

04 STATE
FL

05 ZIP CODE
33062

06 TELEPHONE NUMBER
() Unlisted

07 OPERATOR (if known and different from owner)
Global Import Auto Parts

08 STREET (Business, mailing, residential)
941 N. State Road 7 [30]

09 CITY
Plantation

10 STATE
FL

11 ZIP CODE
33333

12 TELEPHONE NUMBER
(305) 584-0775

13 TYPE OF OWNERSHIP (Check one)
☒ A. Private ☐ B. Federal ☐ C. State ☐ D. County ☐ E. Municipal
____ F. Other (Specify) _____ G. Unknown

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED ____ / ____ / ____ ☐ B. UNCONTROLLED WASTE SITE DATE RECEIVED ____ / ____ / ____ ☒ C. NONE
Month Day Year Month Day Year

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
☒ YES DATE 8/26/75 [9] ☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ NO Month Day Year ☒ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN
[8]

03 YEARS OF OPERATIONS
1975 / 1977
Beginning Year Ending Year UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED
Lead, mercury and ethylene glycol could be present on-site, as a result of former on-site activities [1,2,3,9,17].

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION - Contaminants from a radiator shop were discharged directly into the Biscayne aquifer [1,2,3,9,17-19,27]. Overflow from the drainage systems pooled at the surface of the parking lot [1,2,9-12]. The site is adjacent to the Sunrise canal and within 3 miles of municipal wells serving a large population (Fig. 1) [3-6].

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH ☒ B. MEDIUM ☐ C. LOW ☐ D. NONE
(Inspection required promptly) (Inspection required) (Inspect on time available basis) (No further action needed, complete disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT
Eric S. Nuzie

02 OF (Agency/Organization)
FDER/BWC

03 TELEPHONE NUMBER
(904) 488-0190

04 PERSON RESPONSIBLE FOR ASSESSMENT
Craig F. Feeny

05 AGENCY
FDER

06 ORGANIZATION
BWC

07 TELEPHONE NUMBER
(904) 488-0190

08 DATE
7/14/89
Month Day Year

REFERENCES

GLOBAL IMPORT AUTO PARTS
AKA: STAG'S AUTO RADIATOR
FLD057973646

1. Broward County Pollution Control Board, 6/3/76. Notice of Violation (Inspection Work Sheet attached).
2. Thoms, J.S., 6/10/76. Letter to Environmental Quality Control Board.
3. Marchese, 11/75. Blueprint: Raw Water Well Use Permits - City of Ft. Lauderdale.
4. Reese, K.B., 7/16/87. Letter to A.J. McCarthy.
5. Healy, H.G., 1977. Public Water Supplies of Selected Municipalities in Florida, 1975. USGS Water-Resources Investigations 77-53.
6. Sherwood, C.B., H.J. McCoy, and C.F. Galliher, 1973. Water Resources of Broward County, Florida. FBOG/USGS Report of Investigation No. 65.
7. Florida Department of Natural Resources, 1975. Florida Environmentally Endangered Lands Plan.
8. Feeny, C.F., 7/30/85. Windshield Survey - Stag's Auto Radiator (Brian Moore, 4/5/89 Windshield Survey Update Comments included).
9. Broward County Pollution Control Board (BCPCB), 8/26/75, 1/8/76, 9/1/76, 11/18/76, 3/21/77 and 3/15/79. Inspection Work Sheets.
10. Ray, 4/27/76. Transmittal Slip.
11. BCPCB, 10/7/75. Inspection Work Sheet.
12. BCPCB, 10/9/75. Inspection Work Sheet.
13. Sax, N.I., 1984. Dangerous Properties of Industrial Materials, Sixth Edition.
14. Sittig, M., 1985. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Second Edition.
15. Hawley, G.G., 1981. The Condensed Chemical Dictionary, Tenth Edition.
16. Doull, J.; C.D. Klaassen and M.O. Amdur, 1980. Casarett and Doull's Toxicology: The Basic Science of Poisons, Second Edition.
17. BCPCB, 9/15/76. Inspection Work Sheet.
18. BCPCB, 6/24/77. Inspection Work Sheet.
19. BCPCB, 9/27/77. Inspection Work Sheet.

References

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Page Two

20. BCPCB, 11/15/78. Inspection Work Sheet.
21. BCPCB, 6/26/79. Inspection Work Sheet.
22. BCPCB, 10/28/80. Inspection Work Sheet.
23. BCPCB, 1/20/81. Industrial Sludge Survey.
24. BCPCB, 4/30/81. Facility Inspection Report.
25. Florida Department of Environmental Regulation (FDER), 5/3/89. RCRA Facility Permit Application Tracking Log - Active Facilities Application List.
26. FDER, 12/8/86. HWR07A - HWDMS Listing.
27. BCPCB, 4/26/76. Inspection Work Sheet.
28. BCPCB, 6/25/76. Inspection Work Sheet.
29. Visher, F.N. and G.H. Hughes, 1975. The Difference Between Rainfall and Potential Evaporation in Florida, Second Edition. USGS/FBOG Map Series No. 32.
30. Southern Bell, 1989. Greater Ft. Lauderdale Yellow Pages.
31. Markham, W. to C. Feeny. 8/2/89. Broward County Property Appraiser - Ownership Information about Global Import Auto Parts Site.

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

STAG'S AUTO RADIATOR
EPA SITE NUMBER FLD057973646
PLANTATION
BROWARD COUNTY, FL
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY CRAIG FEENY
OF FDER
ON 05/17/89

DATE OF THIS REPORT: 05/17/89
DATE OF LAST MODIFICATION: 05/17/89

GROUND WATER ROUTE SCORE :	51.02
SURFACE WATER ROUTE SCORE:	0.00
AIR ROUTE SCORE :	0.00
<hr/>	
MIGRATION SCORE :	35.27

HRS GROUND WATER ROUTE SCORE

CATEGORY/FACTOR		RAW DATA	HSN. VALUE	SCORE
1. OBSERVED RELEASE		NO	0	0
2. ROUTE CHARACTERISTICS				
DEPTH TO WATER TABLE		5 FEET (Fig.1) (Ref.6(p.62)		
DEPTH TO BOTTOM OF WASTE		5 FEET (Ref. 2)		
DEPTH TO AQUIFER OF CONCERN		0 FEET	0	0
PRECIPITATION		9.0 INCHES (Ref.29)		
EVAPORATION		0.0 INCHES		
NET PRECIPITATION		9.0 INCHES	0	0
PERMEABILITY	(Ref.6)	1.0X10 ⁻³ CM/SEC	2	2
PHYSICAL STATE	(Ref.1,2,9-12,17-24,27,28)		2	2
TOTAL ROUTE CHARACTERISTICS SCORE:				13
3. CONTAINMENT	(Ref.1,2,9-12,17-24,27,28)		2	0
4. WASTE CHARACTERISTICS				
TOXICITY/PERSISTENCE: IRON & COMPOUNDS, NUS		(Ref.1)		16
WASTE QUANTITY	CUBIC YDS	0		
	DRUMS	0		
	GALLONS	62400 (Ref.2)		
	TONS	0		
TOTAL		312 CU. YDS	0	0
TOTAL WASTE CHARACTERISTICS SCORE:				23
5. TARGETS				
GROUND WATER USE			3 (Ref.6)	0
DISTANCE TO NEAREST WELL		6146 FEET (Fig.1) (Ref.3)		
AND		MATRIX VALUE	30	30
TOTAL POPULATION SERVED		301740 PERSONS (Ref.4,5)		
NUMBER OF HOUSES		0		
NUMBER OF PERSONS		261430 (Ref.5)		
NUMBER OF CONNECTIONS		10608 (Ref.4)		
NUMBER OF IRRIGATED ACRES		0		
TOTAL TARGETS SCORE:				39

GROUND WATER ROUTE SCORE (S_{gw}) = 61.00

HRS SURFACE WATER ROUTE SCORE

<u>CATEGORY/FACTOR</u>	<u>RAW DATA</u>	<u>ASN. VALUE</u>	<u>SCORE</u>
1. OBSERVED RELEASE	ROUTE NOT SCORED		N/A
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER			
SITE WITHIN CLOSED BASIN			
FACILITY SLOPE			
INTERVENING SLOPE			
24-HOUR RAINFALL			
DISTANCE TO DOWN-SLOPE WATER			
PHYSICAL STATE			
TOTAL ROUTE CHARACTERISTICS SCORE:			N/A
3. CONTAINMENT			N/A
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:			
WASTE QUANTITY	CUBIC YDS		
	DRUMS		
	GALLONS		
	TONS		
	TOTAL		
TOTAL WASTE CHARACTERISTICS SCORE:			N/A
5. TARGETS			
SURFACE WATER USE			
DISTANCE TO SENSITIVE ENVIRONMENT			
COASTAL WETLANDS			
FRESH-WATER WETLANDS			
CRITICAL HABITAT			
DISTANCE TO STATIC WATER			
DISTANCE TO WATER SUPPLY INTAKE			
AND	MATRIX VALUE		
TOTAL POPULATION SERVED			
NUMBER OF HOUSES			
NUMBER OF PERSONS			
NUMBER OF CONNECTIONS			
NUMBER OF IRRIGATED ACRES			
TOTAL TARGETS SCORE:			N/A
SURFACE WATER ROUTE SCORE (S _{SW}) = 0.00			

HRS AIR ROUTE SCORE

<u>CATEGORY/FACTOR</u>	<u>RAW DATA</u>	<u>ASN. VALUE</u>	<u>SCORE</u>
1. OBSERVED RELEASE	NO	0	0

2. WASTE CHARACTERISTICS

REACTIVITY:

MATRIX VALUE

INCOMPATIBILITY

TOXICITY

WASTE QUANTITY CUBIC YARDS
 DRUMS
 GALLONS
 TONS

TOTAL

TOTAL WASTE CHARACTERISTICS SCORE:

N/A

3. TARGETS

POPULATION WITHIN 4-MILE RADIUS

0 to 0.25 mile

0 to 0.50 mile

0 to 1.0 mile

0 to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS

COASTAL WETLANDS

FRESH-WATER WETLANDS

CRITICAL HABITAT

DISTANCE TO LAND USES

COMMERCIAL/INDUSTRIAL

PARK/FOREST/RESIDENTIAL

AGRICULTURAL LAND

PRIME FARMLAND

HISTORIC SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

N/A

AIR ROUTE SCORE (Sa) = 0.00

FOR

SITE: STAG'S AUTO RADIATOR

AS OF 05/17/89

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS		13
CONTAINMENT	X	3
WASTE CHARACTERISTICS	X	23
TARGETS	X	39

$$= 34983 / 57,330 \times 100 = 61.02 = S_{1gw}$$

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS		0
CONTAINMENT	X	0
WASTE CHARACTERISTICS	X	0
TARGETS	X	0

$$= 0 / 64,350 \times 100 = 0.00 = S_{1sw}$$

AIR ROUTE SCORE

$$\text{OBSERVED RELEASE} \quad 0 / 35,100 \times 100 = 0.00 = S_{1air}$$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	S02
GROUND WATER ROUTE SCORE (S _{1gw})	61.02	3723.44
SURFACE WATER ROUTE SCORE (S _{1sw})	0.00	0.00
AIR ROUTE SCORE (S _{1air})	0.00	0.00
S02 _{1gw} + S02 _{1sw} + S02 _{1air}		3723.
J (S02 _{1gw} + S02 _{1sw} + S02 _{1air})		61.
SIM = J (S02 _{1gw} + S02 _{1sw} + S02 _{1air}) / 1.73		35.27

OVERSIZED

DOCUMENT

Maps

Figure 1



ISSUED
JAY THOMS

Reference 1

6-3-76

6/3/76

Name: STAG'S RADIATOR
Address: 941 D. N.W. 40th AVE Plantation
FLA.
Location of Violation: (ADDRESS SAME) WEST
SIDE OF Bldg.

You are hereby notified that you are in violation of Chapter 65-1338,
Laws of Florida, Special Acts of 1965, as amended, by causing pollution at
the above location, on this date, to wit:

UNLAWFUL DISCHARGE OF
INDUSTRIAL WASTE ONTO SURFACE
AND GROUND WATERS.

In violation of Section 4-1 (1) of the

Code of Regulations of the Broward County Pollution Control Board / Rule

_____ of the Florida Department of Pollution

Control, at the above described location on June 3, 1976

Date

4:45 P. M.
Time

☐ The aforesaid violation shall be rectified and stopped within _____

2. ☐ The operation causing the aforesaid violation shall immediately
cease.

☒ Within (6-14-76) 10 days you must submit to the Board
in writing, your proposed plan of operation which will eliminate
the pollution condition specified above.

Failure to comply may result in criminal prosecution or a civil penalty of
up to \$5,000.00 a day for each day of violation.

Victor N. Howard

Victor N. Howard, P.E.
Pollution Control Officer

by: Rich Hacht
Inspector

Received this 3rd day of June, 1976, at 4:50 P. M.

200

Person Contacted: Jay Thomas

Owner

Title

Next Contact Date: 6-17-76

Rich Hacht

Inspector

VIOLATION WORK SHEET

(see) Source No. 331

Violated Emission Point Data Sheet

Problem Points _____

4. _____ Yes _____ No _____

5. _____ Yes _____ No _____

6. _____ Yes _____ No _____

Corrective action and compliance schedule:

shut-up a PVC pipe running from
of his bldg to act as a overflow
the amount of water being discharged,
water thru the overflow into the
procedure prevents their parking

ly discharged directly on to
the waste beside water, containing
iron, sludgy material, and
soda, the N.O.V #0446
over

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time Out 16:05
17:00

Date 6-3-76

FACILITY INSPECTION WORK SHEET

Source Name Stops Radiator Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. Spray rack Yes ☒ No _____ 4. _____ Yes _____ No _____
2. French drain Yes ☒ No _____ 5. _____ Yes _____ No _____
3. Attached overflow Yes _____ No ☒ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Owner has hooked-up a PVC pipe running from the french drain to west side of his bldg to act as a overflow line. When drain cannot handle the amount of water being discharge a sump pump pumps waste water thru the overflow into the

Corrective Action (what): ground. This procedure prevents their parking lot from being flooded.

Because their waste is being discharged directly on to ground off their property and waste besides water, containing

Compliance (when): merisatic acid, iron, sludgy material, and Rust Blity containing Caustic soda, the N.O.V #0446
over

Person Contacted: Jay Thomas Owner
Title

Next Contact Date: 6-17-76 Rich Hacht
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

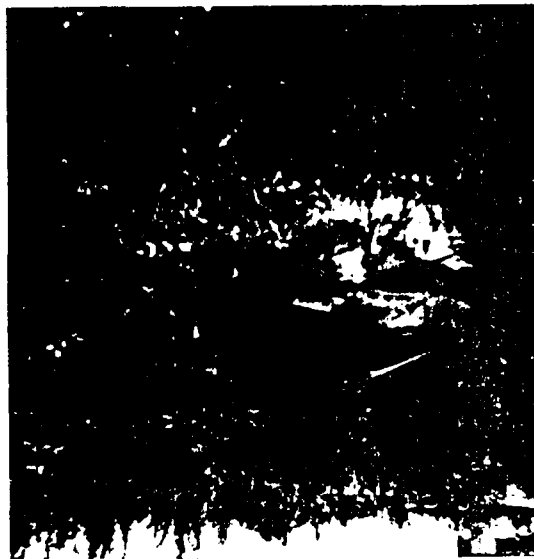
N.O.V. Sent: ☐ Yes ☐ No Date: _____

was issued for unlawful discharge of industrial waste on to ground surface.

Mr. Thomas insists that because sanitary sewers are not available to him, domestic sewage drainfield takes up his parking lot and remaining portion of property has no space for an added drainfield, he has no other means of discharging his wastes.

Within 11 days he will send a letter to our office explaining his situation and a chemical break-down from manufacturers of the products he uses.

Presently, a rinse tank and radiator having Rust Blitz in it, were being flushed-out. Waste waters are running from p.v.c pipe on to ground on west side of bldg.



Reference 2

June 10, 1976

Stag's Auto Radiator
941 N State Road 7
Plantation, Florida

Enviramental Quality Control Board
500 SW14 Court
Ft Lauderdale, Florida

Gentlemen:

Per your request for a chemical analysis of the waste that goes into the French drain in our parking lot, we have enclosed the analysis from the manufactor. ★

As you can see the chemical is completely water soluble. The following steps take place before the water is exhausted into the drain:

1) The cleaning chemical is placed in a cleaning tank and diluted at the ratio of 1 3/4 lbs to 130 gallons of water.

This acid tank has no drain or overflow and is never emptied.

2) After a radiator is soaked in the acid bath, the radiator is removed and all excess solution is shook out of the radiator back into the tank.

3) The radiator is then placed in a flush booth and flushed. This operation takes approximately 20 gallons of water.

4) The radiator is then placed in a test tank of nothing but well water.

5) The only thing exhausted outside into the drain is well water and dirt from the interior of radiators.

Stag's Radiator cleans an average of 4 to 5 radiators per day. Therefore I submit the following figures:

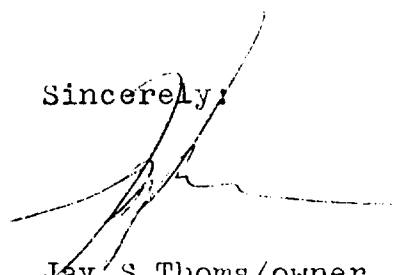
Approximately 120 gallons of well water is exhausted per day thru the flush booth and overflow on the test tanks and of this amount approximately 8 ozs. of it is diluted acid.

All fluid goes into a French drain which is 5' deep. If the ground will not absorb the fluid pumped into the drain and the water level rises over 2', only at this time, the excess is pumped into a field west of the shop.

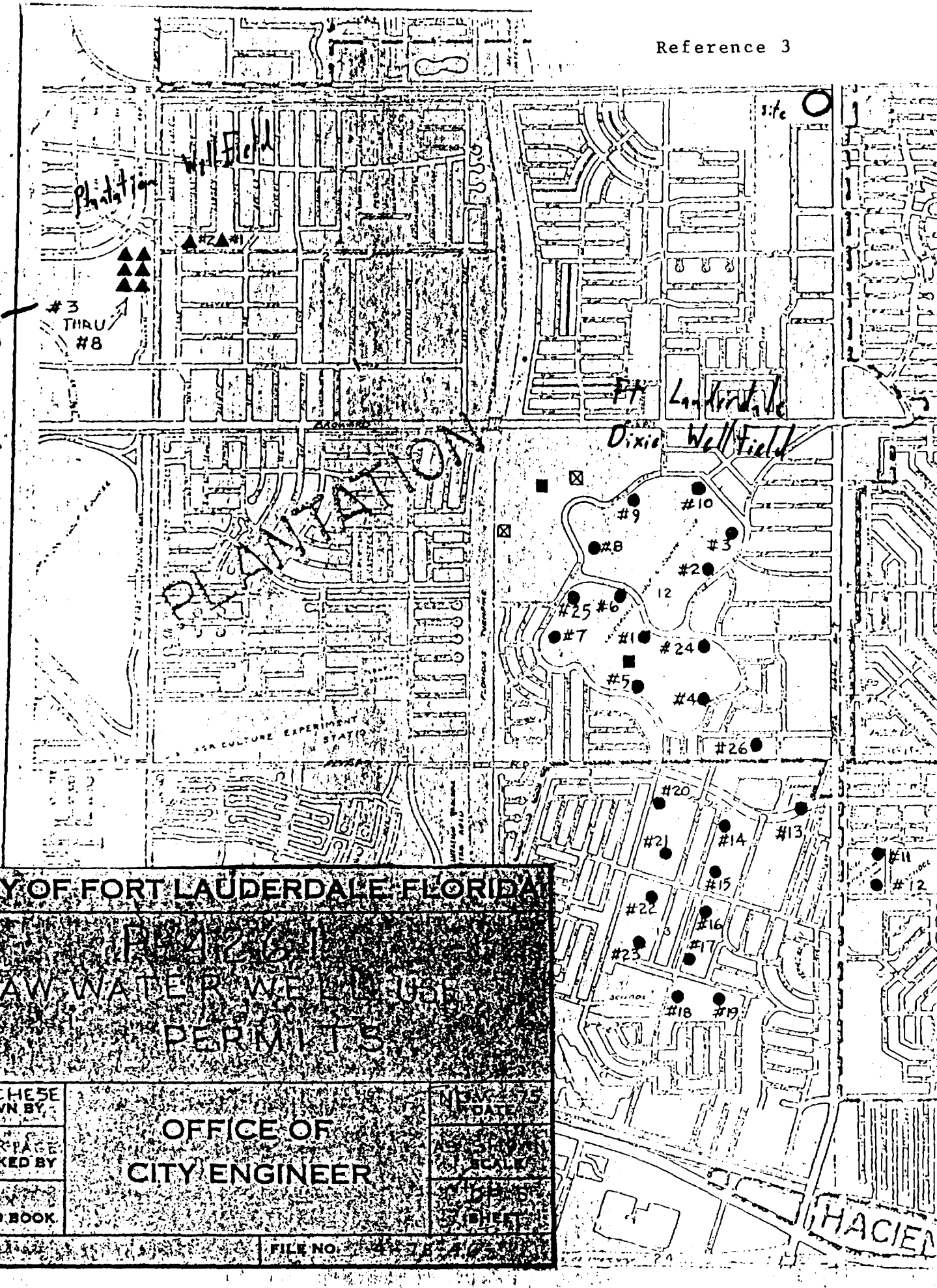
★ No Analysis was Found in local file.

If there are any further questions or you require any more information, I am at your disposal.

Sincerely:

A handwritten signature in dark ink, appearing to read 'Jay S Thoms', is written over the word 'Sincerely:' and extends downwards into the name line.

Jay S Thoms/owner
Stag's Radiator



12/2/2016

RAW WATER WELL USE PERMITS

MARCHESE
DRAWN BY:

MARRIAGE
CHECKED BY

FIELD BOOK.

OFFICE OF
CITY ENGINEER

NEW 2475
WATER

CALL

CDP 6
SHEET

FILE NO.

THACIE



Reference 4

Utilities Division

2401 N. Powerline Road
Pompano Beach, Fla. 33069
(305) 971-6220

July 16, 1987

Mr. A. James McCarthy
Environmental Specialist
Bureau of Operations
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RECEIVED

JUL 21 1987

BUREAU OF
OPERATIONS

Dear Mr. McCarthy:

Enclosed, please find the information you requested. I would like to clarify one point. The District 1C plant is out-of-service and will not be utilized in the future. The two wells will be abandoned in the approved manner in the very near future. The wells are on plant site and are maintained by maintenance crews on a monthly basis. The site is located on the topo maps for your information only.

The number of service connections for each facility are as follows:

District 1A	10,608
District 1B	3,366
District 2A	17,019
Broadview	2,199
District 3A	5,250
District 3B	6,037
District 3C	3,646

Should you require more information, please do not hesitate to contact me at 305-971-6220, ext. 282.

Sincerely yours,

Kathleen B. Reese
Special Projects Coordinator III

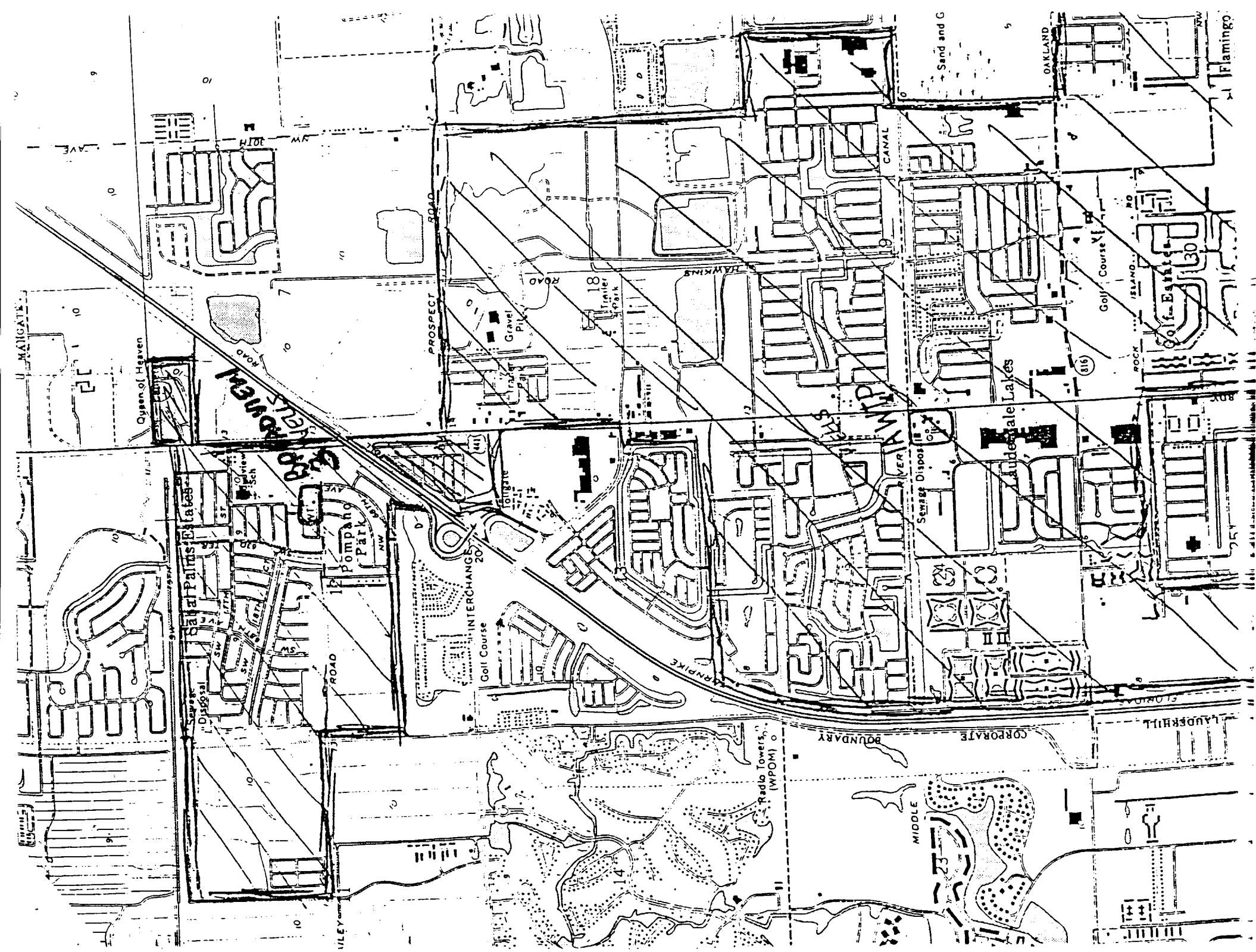
KBR/tgt

cc: Michael J. Scottie
Ralph A. Piacente

BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS

Scott I. Cowan Howard Craft Howard Forman Nicki Englander Grossman Ed Kennedy Sylvia Portier Gerald Thompson

An Equal Opportunity Employer



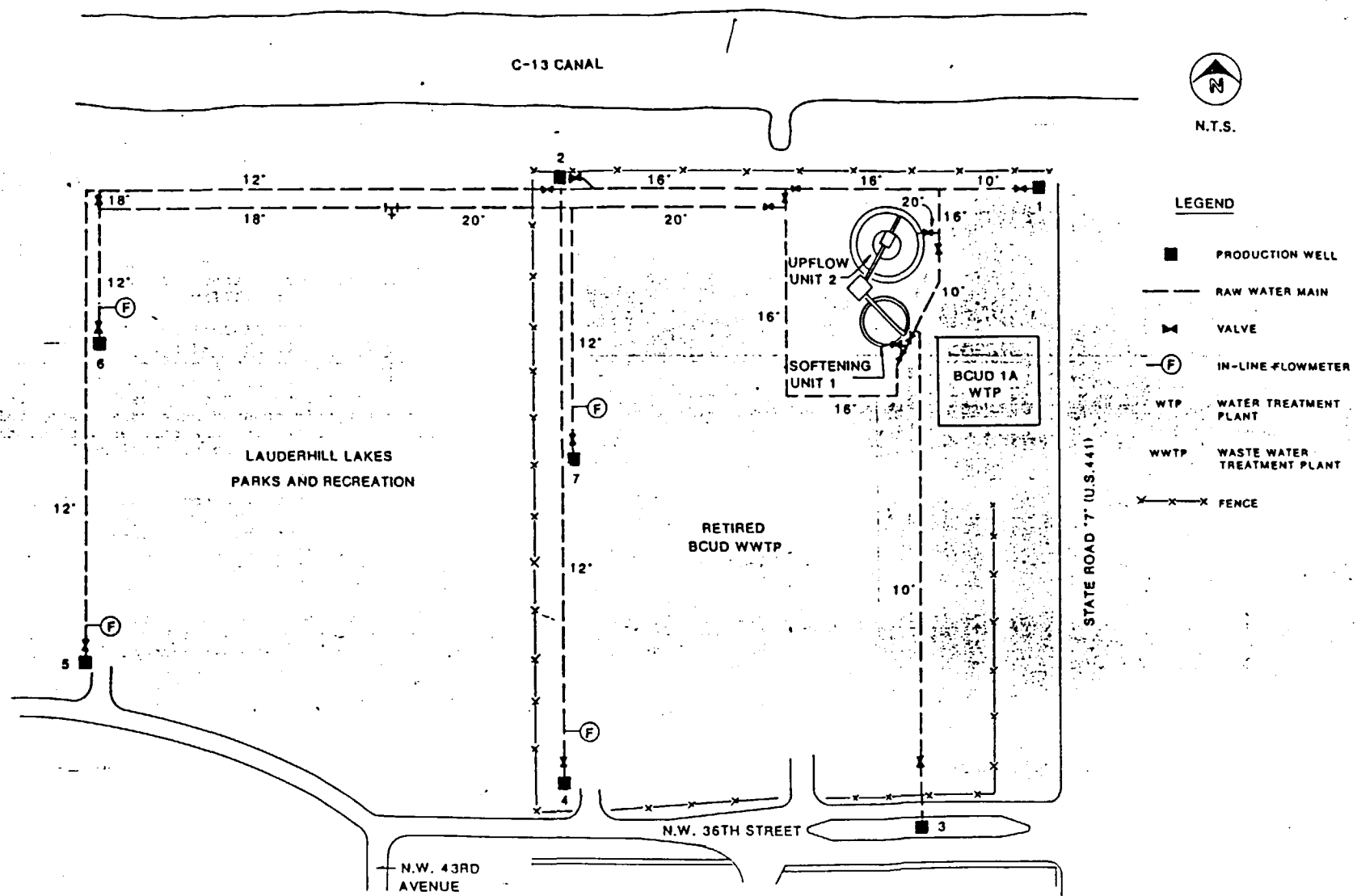


FIGURE 7-1
BCUD-1A WELLFIELD AND RAW
WATER PIPING CONFIGURATION



PUBLIC WATER SUPPLIES OF SELECTED
MUNICIPALITIES IN FLORIDA, 1975

By Henry G. Healy

U.S. GEOLOGICAL SURVEY

WATER-RESOURCES INVESTIGATIONS 77-53

Prepared in cooperation with

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ST JOHNS RIVER WATER MANAGEMENT DISTRICT
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
AND OTHER STATE, LOCAL, AND FEDERAL AGENCIES

July 1977

FORT LAUDERDALE

County: Broward

Population served: 226,430

River basin: Everglades and southeastern coastal area (09 02 02)

Ownership of supply or system: Municipal

Source of water: Ground water, Biscayne aquifer; 59 wells, 75 to 189 feet deep; yield 400 to 2,100 gal/min

Rated plant capacity: 60 Mgal/d

Pumpage: Year— 16,798.39 Mgal

Average daily— 46.02^a/ Mgal

Highest month: April, 1,822.2 Mgal

Lowest month: October, 1,172.3 Mgal

Per capita use: 203 gal/d

Finished-water storage: 20 Mgal

Treatment: Aeration, chlorination, coagulation, filtration, flocculation, pH control, softening, taste and odor control

Type/Frequency of analysis: Bacteriological, chemical, color, and turbidity/ daily; spectrographic/30 times yearly

Sewage discharge: 16.97 Mgal/d (5 sewage treatment plants)

Sewage treatment: Chlorination, clarification, comminution (all); activated sludge, drying, grit chamber, skimming (2); aeration, digestion (3); contact stabilization, incineration (1)

Waste discharged to: North Fork New River Canal; Intracoastal Waterway (2); South Fork New River; North Fork Middle River

Remarks: Average daily pumpage increased from 17.10 Mgal/d in 1956 to 46.0 Mgal/d in 1975. City supplied at total of 6.576 mgd to Wilton Manors, Oakland Pk, Lazy Lake and Tamarac. City also supplies Lauderdale-by-the-sea, Sea Ranch Lake, Ft. Lauderdale-Hollywood airport and Port Everglades. Supplementary supply for Dania, Plantation and Broward County Utilities Dept. (fig 24). Leach and others (1972), Sherwood and others (1973). a/ Combined pumpage, Dixie and Prospect Well Fields. CHEMICAL ANALYSIS (milligrams per liter except as indicated)

ANALYSIS BY: U.S. Geological Survey COLLECTION DATE: 6-12-75

SAMPLING POINT: 261044080092001, Prospect water plant

Silica (SiO ₂)	9.7	Dissolved solids	
Calcium (Ca)	100	(residue at 180°C)	388
Magnesium (Mg)	2.8	Total hardness	
Sodium (Na)	19	(as CaCO ₃)	260
Potassium (K)	1.5	Noncarbonate hardness	
Strontium (Sr)	.78	(as CaCO ₃)	15
Bicarbonate (HCO ₃)	299	Alkalinity (as CaCO ₃)	245
Sulfate (SO ₄)	26	pH (units)	7.4
Chloride (Cl)	33	Specific conductance	
Fluoride (F)	.3	(μmhos/cm at 25°C)	619
Nitrate (NO ₃ -N)	.01	Color (Pt-Co units)	45
Nitrite (NO ₂ -N)	.00	Temperature (°C)	--
Nitrogen, organic (N)	--	Turbidity (JTU)	--
Nitrogen		Carbon, organic, total (C)	--
(ammonia, total (NH ₄ -N))	.63	Orthophosphate	
Iron (Fe)	1.8	total (PO ₄ -P)	--
Phosphorus, total (P)	--		

PLANTATION

County: Broward

Population served: 35,000

River basin: Everglades and southeastern coastal area (09 02 02)

Ownership of supply or system: Municipal

Source of water: Ground water, Biscayne aquifer; 8 wells, 74 to 95 feet deep; yield 525 to 750 gal/min

Rated plant capacity: 7 Mgal/d

Pumpage: Year—1,892.89 Mgal

Average daily—5.19^a/Mgal

Highest month: March, 210.5 Mgal

Lowest month: October, 129.9 Mgal

Per capita use: 148 gal/d

Finished-water storage: 1.85 Mgal

Treatment: Aeration, chlorination, filtration, softening, fluoridation

Type/Frequency of analysis: Bacteriological daily^{b/}; chemical, color, turbidity/annually; bacteriological/twice weekly^{c/}

Sewage discharge: 2.0 Mgal/d

Sewage treatment: Activated sludge, aeration, chlorination, contact stabilization, drying, polishing pond, secondary

Waste discharged to: Holloway Canal

Remarks: Average daily pumpage increased from 0.05 Mgal/d in 1956 to 5.19 Mgal/d in 1975.

a/ Includes 0.726 Mgal/d commercial use.

b/ Treated water.

c/ Raw water.

CHEMICAL ANALYSIS (milligrams per liter except as indicated)

ANALYSIS BY: U.S. Geological Survey **COLLECTION DATE:** 6-12-75

SAMPLING POINT: 260738080140701, Plantation Water Plant

Silica (SiO_2)	8.6	Dissolved solids	
Calcium (Ca)	110	(residue at 180°C)	416
Magnesium (Mg)	2.8	Total hardness	
Sodium (Na)	27	(as CaCO_3)	287
Potassium (K)	.8	Noncarbonate hardness	
Strontium (Sr)	.89	(as CaCO_3)	38
Bicarbonate (HCO_3)	304	Alkalinity (as CaCO_3)	249
Sulfate (SO_4)	24	pH (units)	7.5
Chloride (Cl)	48	Specific conductance	
Fluoride (F)	.3	($\mu\text{mhos/cm}$ at 25°C)	668
Nitrate ($\text{NO}_3\text{-N}$)	.00	Color (Pt-Co units)	95
Nitrite ($\text{NO}_2\text{-N}$)	.00	Temperature ($^\circ\text{C}$)	--
Nitrogen, organic (N)	--	Turbidity (JTU)	--
Nitrogen		Carbon, organic, total (C)	--
(ammonia, total ($\text{NH}_4\text{-N}$))	.9	Orthophosphate	--
Iron (Fe)	1.9	total ($\text{PO}_4\text{-P}$)	--
Phosphorus, total (P)	--		

STATE OF FLORIDA
DEPARTMENT OF NATURAL RESOURCES
Randolph Hodges, Executive Director

DIVISION OF INTERIOR RESOURCES
Robert O. Vernon, Director

BUREAU OF GEOLOGY
C. W. Hendry, Jr., Chief

Report of Investigation No. 65

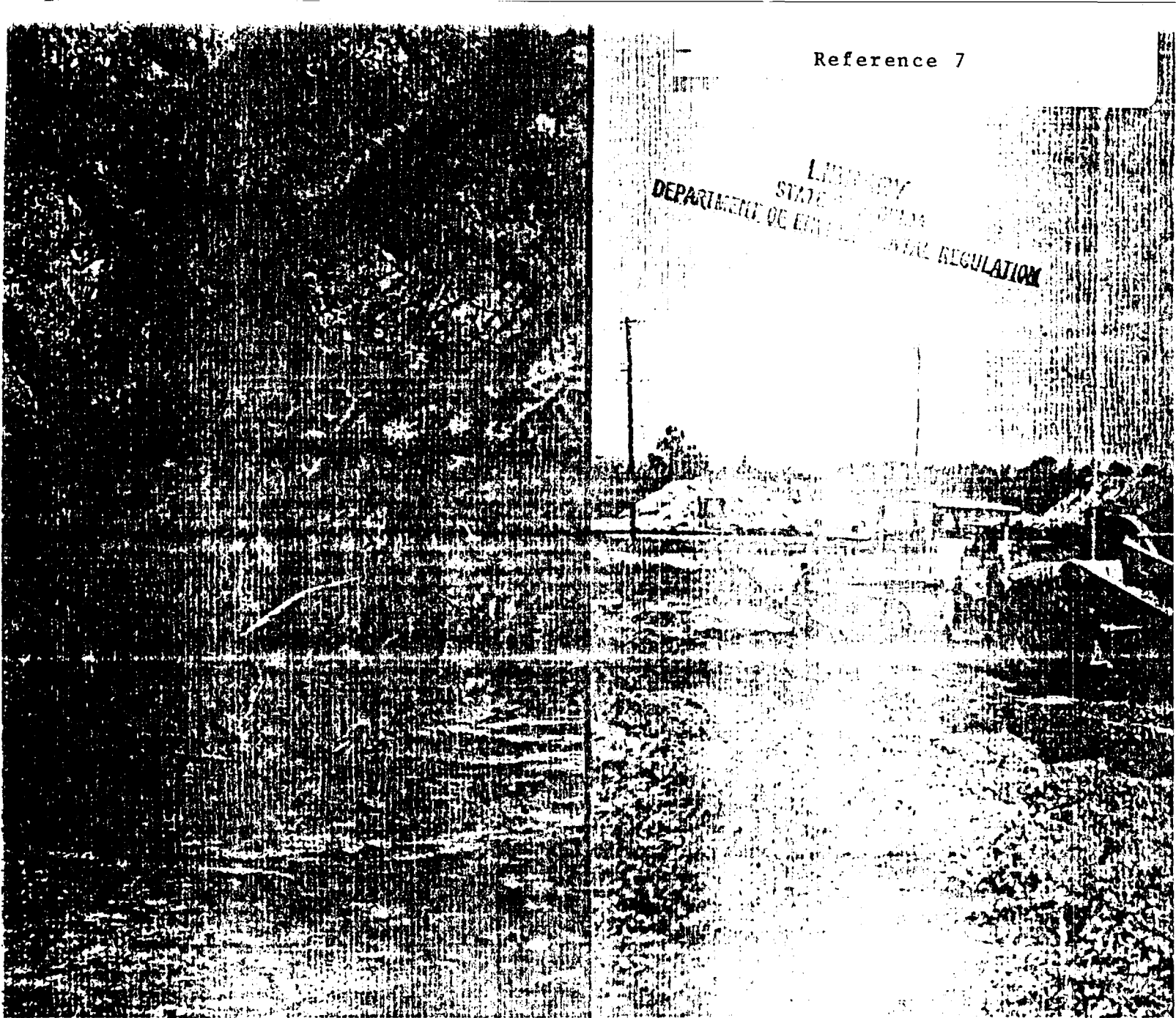
WATER RESOURCES OF BROWARD COUNTY, FLORIDA

By
C. B. Sherwood, H. J. McCoy, and C. F. Galliher

Prepared by the
UNITED STATES GEOLOGICAL SURVEY
in Cooperation with the
BUREAU OF GEOLOGY
FLORIDA DEPARTMENT OF NATURAL RESOURCES
and
BROWARD COUNTY

TALLAHASSEE
1973

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DEPARTMENT OF ENVIRONMENTAL REGULATION



FLORIDA

Environmentally
Endangered
Land Use

supplies is the effect of the channelization of the Kissimmee River on the water supply of south Florida. As a consequence of channelization, the area of river marsh was reduced from 45,000 acres to 8,000 acres, and the length of the river was greatly reduced. The resulting straight channel is much more efficient at moving water than the meandering natural river was. Rain falling in the northern end of the Kissimmee drainage basin now gets to Lake Okeechobee much faster and with a greater peak flow. The new configuration of the Kissimmee waterway has created three situations harmful to the water supply of south Florida: (a) channelization and the concomitant drainage have opened up the watershed to development, thus increasing the pollution load; (b) the great reduction of floodplain marsh and swamp has likewise greatly reduced the absorption of pollutants formerly carried on by those wetlands; and (c) pollutants reach Lake Okeechobee much faster than formerly. These situations may well result in an accelerated eutrophication of Lake Okeechobee with an associated decline in water quality. Lake Okeechobee water

goes south, east and west in canals. Water in the canals recharges the shallow aquifers of south Florida and helps maintain a sufficient fresh water head to prevent sea water encroachment into aquifers. Thus, there is a connection between water quality in Lake Okeechobee and water quality in aquifers supplying south Florida communities. Water quality in Lake Okeechobee is, of course, also very important to the lake's associated wetland and aquatic ecosystems. It is also important to natural systems further south. For example, the Everglades National Park receives, by law, a fixed minimum amount of water from a storage system that extends from the park's northern boundary to Lake Okeechobee.

Question (2), what surface waters are most important, is difficult to answer satisfactorily. Any list of important waters must, however, include these general classes of surface waters: (a) rivers and lakes used as municipal water supply sources (see Table No. 3); (b) lakes and rivers of good water quality which could serve as water supply sources in the future (see Table No. 4); and

Table 3

SURFACE WATER SOURCES AND FLORIDA MUNICIPALITIES SUPPLIED 1970

Source	Municipality	Percent of total demand supplied
Deer Point Reservoir	Panama City	100
Chipola River	Port St. Joe	100
Quincy Creek	Quincy	90
Hillsborough River	Tampa	100
Lake Washington (St. Johns River)	Melbourne & Eau Gallie	100
Manatee River	Palmetto	100
Braden River	Bradenton	100
Lake Sierra	Lake Placid	100
Shell Creek	Punta Gorda	100
Lake Okeechobee	Belle Glade	100
	Clewiston	100
	Okeechobee	100
	Pahokee	100
Caloosahatchee River	Ft. Myers	30
	Ft. Myers suburbs	100
Lake Mangonia & Clear Lake	West Palm Beach; Palm Beach & South Palm Beach	100
Myakka-Hatchee River	North Port Charlotte	100
Fordham Waterway	Port Charlotte	92

Source: U.S. Geological Survey and Florida Department of Natural Resources

WINDSHIELD SURVEY FORM

Date: 7/30/85Surveyed by: Brian Moore1. Site Name Stagg Auto RadiatorCorrect Address 941 NW 40th Ave (441)Resurveyed 4/5/89
by Brian Moore

Phone # _____

EPA ID # FLD _____

Type of business/industry Radiator Repair2. Directions to the Site I-95 to Sunrise Blvd, west to 441,
South 1/2 Block. Site is abandoned building behind Amoco Station.3. Check if present on site and use the space provided to describe:

- a. storage tanks (above/below ground; how many; condition) No
- b. berms (material/condition) no
- c. drums (covered/uncovered; on/off the ground; condition; number; labels)
no
- d. other storage containers no
- e. impoundments/pits/ponds no
- f. piles on ground (material; covered/uncovered) no
- g. dumpster/bulk waste container no
- h. air stacks no
- i. air emissions/odor (wind direction) no
- j. posted signs (which ones; location) no
- k. sprayfield/ drainfield not in use
- l. pesticide storage no
- m. evidence of past fire/fire protection equipment no
- n. soil discoloration coolant green on asphalt ✓

Windshield Survey Form (Continued)

- o. surface water (type) canal nearby, but off site
- p. buildings (how many) 1
- q. sheds (how many) 0
- r. drainage ditches/pipes not visible
- s. wells (monitoring/drinking) ?
- t. septic tank yes ✓
- u. spills (describe) in front of repair bays on east side ✓
- v. sewers/manholes no
- w. railroad tracks no
- x. flora (describe) grasses, shrubs
- y. fauna (describe) no
- z. water supply ~
- aa. other -
- bb. other -
- cc. other -
- dd. other -

4. Check if present off site and use the space provided to describe:

- a. soil discoloration no
- b. surface water canal to north of building
- c. drainage ditches no
- d. sewer systems/manholes no
- e. spills (describe) evidence of coolant, possibly in garage area
- f. leachate -
- g. flora grasses mostly
- h. fauna no
- i. municipal/domestic water supply ?
- j. other -
- k. other -

Windshield Survey Form (Continued)

4. Check if present off site...(Continued)

- l. other _____
m. other _____

5. Access:

- a. Is the site fenced (describe)? only on south side
b. Is access restricted? no
c. Is the site guarded? no
d. Comments _____

6. Is the site active/abandoned? abandoned (Nonactive auto parts shop)

7. Surrounding community (describe land use and type of industries adjacent to the site; proportions):

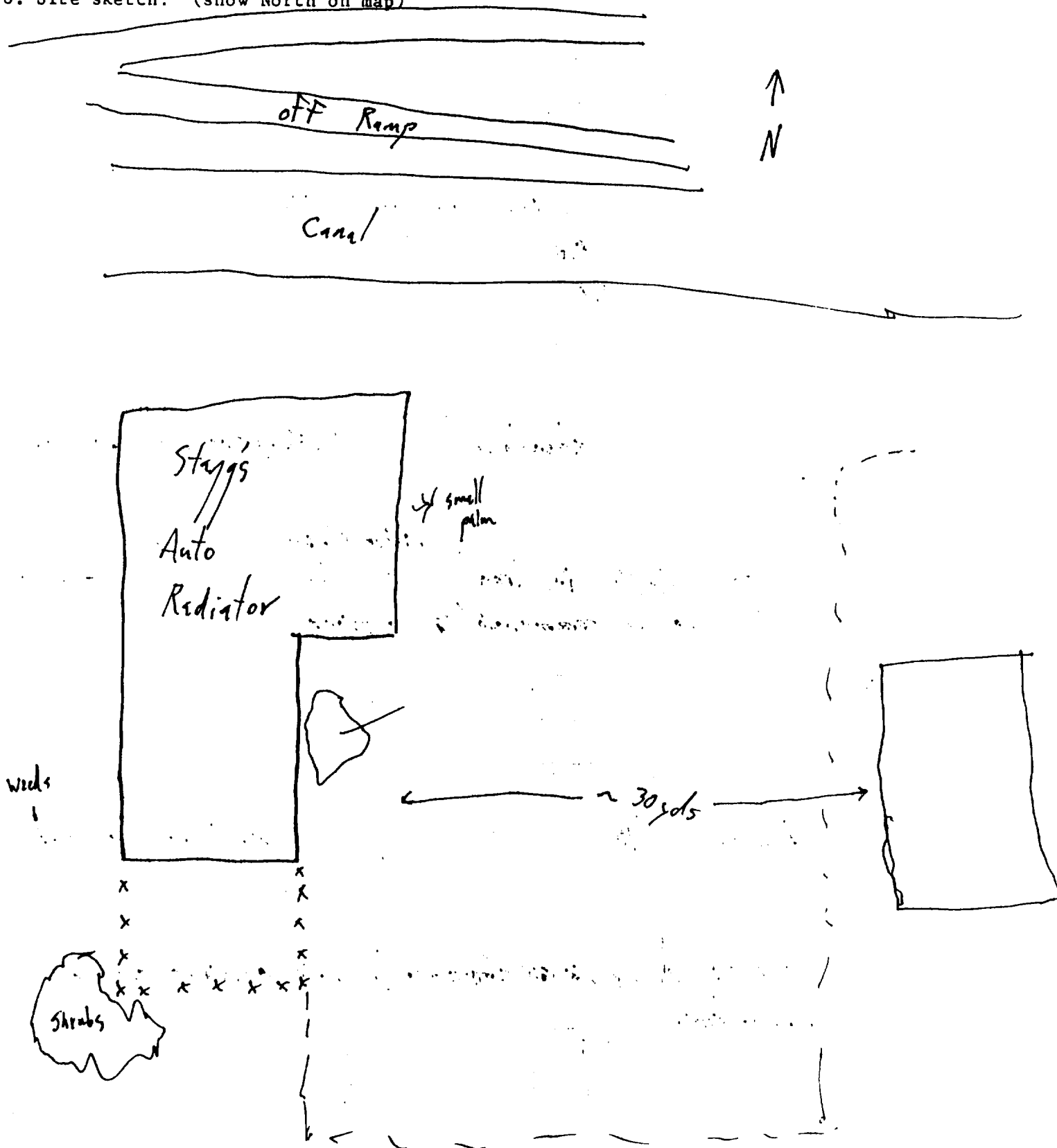
- a. industrial gas station in front Rick Case 4/89 Acura dealer South of site adjacent
b. commercial mostly commercial & offices
c. residential _____
d. rural farms _____
e. rural/woods _____
f. the closest business/residence is: (give name, address and distance)

Ameco (951) ✓ Rick Case Hyundai

- g. comments 7/8/89 Flora is undamaged, no obvious sign of contamination.

Windshield Survey Form (Continued)

8. Site sketch: (show North on map)



Windshield Survey Form (Continued)

9. Comments: _____

10. Recommendations: _____

Time In 13:55

Reference 9

Time Out 14:50

8/26/75

FACILITY INSPECTION WORK SHEET

Source Name STAGG'S RADIATOR Source No. 331☐ Checked Permit Conditions ☐ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. (3) VATS Yes ☒ No _____ 4. _____ Yes _____ No _____2. STEAM GENER Yes ☒ No _____ 5. _____ Yes _____ No _____3. Spray rack Yes ☒ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Over flow from water waste that hold muriatic acid, flux and caustic soda runs into a drain pipe which leads outside into parking lot. This water is presently puddling on top of sand/gravel in parking lot. Spray rack has an exhaust fan

Corrective Action (what): inside window frame. Exhaust fan is working. Company has a steam generator but have not used it as yet.

Compliance (when): Have no permit for spray rackPerson Contacted: Thomas Muncher mgr TitleNext Contact Date: ? Rick Hacht Inspector

OFFICE USE ONLY

Referred to: ☒ Air ☒ Water (Engineering) Date: 9/25/75N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 11:16
Time Out 11:35

Date 1-8-76

1/8/76

FACILITY INSPECTION WORK SHEET

Source Name Stage Radiator Source No. 331

☒ N/A Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. Problem Points

Present Pollution Control Device Efficiency

1. drainage Yes ☒ No 4. spray rack Yes ☒ No
2. yard area Yes ☒ No 5. Yes No
3. work area Yes ☒ No 6. Yes No

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): No violations noted. There is quite a bit of standing water due to ground being saturated. Work area OK. Radiator wash water standing in yard area poses no present danger to Sunrise Canal.

Corrective Action (what): None.
No spraying being done at this time.

Compliance (when): N/A

Person Contacted: Thomas Muncher Mgr. Title

Next Contact Date: 2-9-76 St Hennessy Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date:
N.O.V. Sent: ☐ Yes ☐ No Date:

Time In 1055
Time Out 1230

Date 9-1-76

9/1/76

FACILITY INSPECTION WORK SHEET

Source Name STAGGS RADIATOR Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. FRENCH DRAIN Yes _____ No X 4. _____ Yes _____ No _____
2. _____ Yes _____ No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

NEWLY INSTALLED FRENCH DRAIN ON WEST SIDE OF FACILITY - BUILT TO TAKE EXCESS WASTE
Problem Points (where): WATER CONTAINING CAUSTIC & ACID RESIDUES SEEMS TO BE WORKING
SATISFACTORILY ONLY ON AN INTERMITTENT BASIS. - (SEE INSP. OF 7/29/76) AT THIS
SP. A MINOR DISCH. OF WATER COULD BE OBSV LEAVING TOP OF FRENCH DRAIN & SPREADING
IT IN AN IRREG. PATCH OVER AN AREA WITHIN 10'-15' OF DRAIN. MOST OF
A AREA IS WET - IN A FEW PLACES, HOWEVER, STANDING WATER 1/2" DEEP
PRESENT. MR THOMS SAYS THAT ONLY WHEN AREA HAS HAD HEVY RAIN
YESTERDAY OR WHEN THEY ARE EXTRA BUSY, DOES OVERFLOW SITUATION AT NEW
FRENCH DRAIN OCCUR (USU. THEY ESTM 20-25 GAL OF WATER DISCHD. PER RADIATOR)
Corrective Action (what): MR THOMS IS GOING TO IND. THE CAPACITY OF THE
FRENCH DRAIN ON THE WEST SIDE BY EXCAVATING A NEW PIT APPROX 5 FT. DEEP
(TO PRES. DRAIN) - HE WILL BE INSTALLING TWO MORE 55 GAL HOLDING TANKS. NEW
GRAVEL & THIS TIME LINE THE NEW PIT WITH PLYWOOD TO HOLD BACK SAND MATERIALS
THAT HE THINKS IS SEALING UP HIS GRAVEL IN PRES. PIT. HE WILL HAVE THIS FINISHED WITHIN
10 WEEKS AND WANTS US TO RE-INSPECT DRAIN SYS THEN.

THIS NEW
MODIFICATION MAY SOLVE THE PROBLEM, PARTICULARLY SINCE IT APPEARS THAT
Compliance (when): PRESENT DRAIN SYS CAN HANDLE WATER FLOW ON
DRY DAYS -

Person Contacted: GAY THOMS OWNER
Title

Next Contact Date: 9-15-76 PAUL JOSEPHSON & RAY WALKER
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____
N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 10:30
Time Out 11:15

Date 11-18-76

11/18/76

FACILITY INSPECTION WORK SHEET

Source Name Slags Radiator Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. French drain w/ pit Yes _____ No ☒
2. _____ Yes _____ No _____
3. _____ Yes _____ No _____

Comments regarding problem points, corrective

Problem Points (where): No liquid w
near canal. Standing rain
East side pit presently a
into it. West side pit a

Corrective Action (what): Overflow co

Both test tanks were emptied yesterday + it rained
last evening as well. West side French drain system
is overflowing (probably due to saturated ground).

Compliance (when): I will recheck tomorrow + see if overflow
is continuing. 11-19-76 ^{10:30} - some standing liquid still evident - less
than yesterday

Person Contacted: Harold Jackson Radiator Repairman
Title

Next Contact Date: 12-10-76 St. Henry
Inspector



partly
vented
out -
away

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____
N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 16:10

Time Out 17:00

Date 3-21-77

24 3/21/77

FACILITY INSPECTION WORK SHEET

Source Name Stays Radiator Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. French drain outside Yes ☒ No _____ 4. _____ Yes _____ No _____
2. spray rack Yes ☒ No _____ 5. _____ Yes _____ No _____
3. Steam cleaner Yes ☒ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Mr. Thomas has relocated his radiator shop to the bldg next door. All since the discharge is going to the west side french drain. The spray rack has been moved outdoors on the west side

Corrective Action (what): of bldg. Steam cleaner was not in use.

Compliance (when): Mr. Thomas has opened a ceramic shop in the old radiator bldg.

Person Contacted: Mr. Jay Thomas Owner
Title

Next Contact Date: 6-21-77 Rick Hacht
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 1450
Time Out 1510

Date 3-15-79

3/15/79

FACILITY INSPECTION WORK SHEET

Source Name STAGS' RADIATOR Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. FRENCH DRAIN Yes ✓ No _____ 4. _____ Yes _____ No _____
2. OUTSIDE SPRAY ROLK Yes ✓ No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): FRENCH DRAIN OPERATING NOMINALLY - NO
OVERFLOWS OBSV. AT TIME OF INSP. SPRAYING OF RADIATORS
DONE AGAINST W. WALL OF BLDG - NO PROB. OBSV. WITH
THEIR OVERSPRAY. SOUTH SIDE OF THEIR FACILITY IS USED

Corrective Action (what): TO DRAIN WATER FROM CKE RADIATORS. AREA
IS QUITE SANDY & PERCOLATES EASILY. MR. GRAIN INFORMED
ME THEY MAY BE IMPROVING OPERATION FROM THIS LOC
WITHIN NEXT FEW MONTHS.

Compliance (when): NO PROB. PRESENTLY NOTED.

Person Contacted: DOVE GRAIN MR. GRAIN
Title

Next Contact Date: 6-15-79 P. JOSEPHSON
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____
N.O.V. Sent: ☐ Yes ☐ No Date: _____

TRANSMITTAL SLIP

Reference 10

DATE: 4/27/76
TO: Bob
FROM: Roy

DATE FIRST REFERRED 7/25/75

~~4/26/76~~
4/26/76

STAG'S RADIATOR

Inspector report 4/26/76

REMARKS: Under H, then method of liquid waste disposal
not operating satisfactorily. Could some work be
made to take another look at this place?

YOUR REPLY WOULD BE APPRECIATED

4-26-76
Stag's Radiator
N.W. 40 AVE
Plantation, Fla

RE:

FROM:

REMARKS:

PVC pipe in rear of
bldg back to rinse
tank in shop area.
Idea was scrapped because
water would not flow
thru line.

Rich Hacht Inspector

Time In 1415

Date 10-7-75

Time Out 1446

Reference 11

FACILITY INSPECTION WORK SHEET

Source Name Stoys Location

Source No. 331

☐ Checked Permit Conditions

☐ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

- | | | | | | |
|------------------------|--------------|-------------|----------|-----------|----------|
| 1. <u>Steam Genny</u> | Yes _____ | No _____ | 4. _____ | Yes _____ | No _____ |
| 2. <u>Spray Nozzle</u> | Yes <u>?</u> | No <u>?</u> | 5. _____ | Yes _____ | No _____ |
| 3. <u>3 VATS</u> | Yes <u>X</u> | No _____ | 6. _____ | Yes _____ | No _____ |

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): About the clean from the overflow of
the vat. The guys and owner stated that they
would take a 55 gal drum of gravel and dump it
into the ground. Then they would look up the overflow
Corrective Action (what): draw pipe to it if this was acceptable.
Also I don't think that the spray nozzle is efficient enough for the operation. Observed
operator location to the Canal in the photo
Compliance (when): Hardy Reeves no present.

Pe:

Ne:

Re

N:



USE ()
Engineer

Time In 1350
Time Out 1625

Date 10-9-75

Reference 12

FACILITY INSPECTION WORKSHEET

Source Name Stags Radiator Source No. 331

☐ Checked Permit Conditions ☐ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. drainage Yes X No _____ 4. _____ Yes _____ No _____
2. graded area Yes X No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): The manager call, I went out and they
had graded the driveway and put down a drain
for the H₂O from their vat. They filled a 55 gal
drum with 3/4 rock and submerged it into the ground.

Corrective Action (what): A photo was taken of this. The drainage
is less than a gallon a day according to the mng.
I observed the drainage and it was almost nil at
this time. Corrective action none.

Compliance (when): ok

Person Contacted: Mr. Min Chen

Next Contact Date: 11-9-75



OFFICE 1

Referred to: ☐ Air ☐ Water (En)
N.O.V. Sent: ☐ Yes ☐ No

Dangerous Properties of Industrial Materials

Sixth Edition

N. Irving Sax

ETHYLENE DIPERCHLORATEmf: $C_2H_4Cl_2O_8$; mw: 226.96*THR*: Highly sensitive, very explosive.
Incomp: Water.**ETHYLENE GLYCOL**

CAS RN: 107211

NIOSH #: KW 2975000

mf: $C_2H_6O_2$; mw: 62.08Colorless, sweet-tasting liquid. Hygroscopic. bp: 197.5°, *lei* = 3.2%, *fp*: -13°, flash p: 232°F (CC), d: 1.113 @ 25°/25°, autoign. temp.: 752°F, vap. d: 2.14, vap. press: 0.05 mm @ 20°.**SYNS:**ATHYLENGLYKOL (GERMAN)
1,2-DIHYDROXYETHANE
1,2-ETHANEDIOL
ETHYLENE ALCOHOLGLYCOL
GLYCOL ALCOHOL
MONOETHYLENE GLYCOL
NCI-C00920**TOXICITY DATA:**

2-1

CODEN:msc-mus:lym 100 mmol/L
eye-rat 12 mg/m³/3D
skn-rbt 555 mg open MLD
eye-rbt 111 mg
eye-rbt 12 mg/m³/3D
eye-rbt 1440 mg/6H MOD
orl-chd TDLo: 7400 mg/kg:SYS
orl-hmn LDLo: 710 mg/kg
ihl-hmn TCLo: 10000 mg/m³:IRR
unk-man LDLo: 1637 mg/kg
orl-rat LD50: 8540 mg/kg
ipr-rat LD50: 5220 mg/kg
scu-rat LD50: 5300 mg/kg
ivn-rat LDLo: 2800 mg/kg
ims-rat LDLo: 3300 mg/kg
orl-mus LD50: 7500 mg/kg
ipr-mus LDLo: 1700 mg/kg
scu-mus LDLo: 2700 mg/kg
ivn-mus LD50: 3000 mg/kg
orl-cat LD50: 2000 mg/kg
scu-cat LDLo: 2000 mg/kg
skn-rbt LD50: 19530 mg/kg
ipr-rbt LDLo: 1000 mg/kg
ivn-rbt LDLo: 5 gm/kg
ims-rbt LDLo: 5500 mg/kg
orl-gpg LD50: 6610 mg/kg
scu-gpg LDLo: 5000 mg/kgPAACA3 21,74,80
TXAPA9 16,646,70
UCDS** 7/21/65
JPETAB 82,377,44
TXAPA9 16,646,70
BUYRAI 31,25,77
PGMJAO 52,598,76
JETOAS 9,373,76
AGGHAR 5,1,33
85DCAI 2,73,70
JIHTAB 23,259,41
TXAPA9 21,454,72
CTOXAO 4,185,71
JPETAB 41,387,31
JPETAB 41,387,31
JPETAB 65,89,39
PSEBAA 35,98,36
BJIMAG 1,207,44
JPETAB 65,89,39
JIHTAB 21,173,39
AGGHAR 5,1,33
NPIRI* 1,49,74
PCOC** -,502,66
JPETAB 41,387,31
JPETAB 41,387,31
JIHTAB 23,259,41
AIPTAK 51,398,35Aquatic Toxicity Rating: TLM96: 1000-100 ppm
WQCHM* 3,-,74*TLV*: Air: 100 ppm (vapor) DTLWS* -,18,76. *Toxicology Review*: AJMEAZ 38,409,65. Selected by NTP Carcinogenesis Bioassay as of December 1980. Reported in EPA TSCA Inventory, 1980.*THR*: MOD irr via skn, eyes and mu mem, and via oral, iv and ip routes. (Lethal dose for man reported to be 100 ml). If ingested it causes initial CNS stimulation followed by depression. Later, it causes kidney damage which can terminate fatally. Very tox in particulate form upon inhal.*Fire Hazard*: Slight, when exposed to heat or flame; can react violently with chlorosulfonic acid, oleum, H_2SO_4 , $HClO_4$ and P_2S_5 .*Spontaneous Heating*: No.*Explosion Hazard*: Mod, when exposed to flame.*To Fight Fire*: Alcohol foam, water, foam, CO_2 , dry chemical.**ETHYLENE GLYCOL BIS(2,3-EPOXY-2-METHYLPROPYL) ETHER**

CAS RN: 3775857

NIOSH #: KH 5775000

mf: $C_{10}H_{18}O_4$; mw: 202.28**SYNS:**

ETHYLENE GLYCOL DI(2,3-EPOXY-2-METHYLPROPYL) ETHER

ETHYLENE GLYCOLIDE, (2,3-EPOXY-2-METHYLPROPYL) ETHER

TOXICITY DATA:

2-1

CODEN:skn-rbt 10 mg/24H open MLD
orl-rat LD50: 7460 mg/kg
skn-rbt LD50: 3150 mg/kgAIHAAP 23,95,62
AIHAAP 24,305,63
AIHAAP 23,95,62*THR*: MOD orl, skn. An irr in skn of rbts.*Disaster Hazard*: When heated to decomp it emits acrid smoke and fumes.**ETHYLENE GLYCOL BIS(ODOACETATE)**

CAS RN: 5451514

NIOSH #: AI 3560000

mf: $C_6H_8I_2O_4$; mw: 397.94

SYN: ETHYLENE BIS(ODOACETATE)

TOXICITY DATA:

3

CODEN:ipr-mus LD50: 16 mg/kg
ivn-dog LD50: 4940 ug/kgJNCIAM 31,297,63
JNCIAM 31,297,63*THR*: HIGH ipr, ivn. See also iodides.*Disaster Hazard*: When heated to decomp it emits tox fumes of I^- .**ETHYLENE GLYCOL DIALLYL ETHER**

CAS RN: 7529273

NIOSH #: KW 4200000

mf: $C_8H_{14}O_2$; mw: 142.22

SYN: DIALLYLETHET ETHYLENGLYKOLU (CZECH)

TOXICITY DATA:

2

CODEN:skn-rbt 500 mg/24H SEV
eye-rbt 250 ug/24H SEV
orl-rat LD50: 1020 mg/kg28ZPAK -,38,72
28ZPAK -,38,72
28ZPAK -,38,72

Reported in EPA TSCA Inventory, 1980.

THR: MOD orl. SEV skn, eye irr.*Disaster Hazard*: When heated to decomp it emits acrid smoke and fumes.**ETHYLENE GLYCOL DIETHYL ETHER**

CAS RN: 629141

NIOSH #: KI 1225000

mf: $C_6H_{14}O_2$; mw: 118.20

Colorless liquid, slight ethereal odor. mp: -74°, bp: 121.4°, flash p: 95°F (OC), d: 0.8417 @ 20°/20°, autoign. temp.: 406°F, vap. d: 6.56, vap. press: 9.4 mm.

SYN: DIETHYL CELLOSOLVE

TOXICITY DATA:

2-1

CODEN:eye-rbt 17 mg
orl-rat LD50: 4390 mg/kgAJOPAA 29,1363,46
JIHTAB 23,259,41

1688 LAURYL PYRIDINIUM LAURYL XANTHATE

SYNS:

1-DODECANETHIOL
M-DODECYL MERCAPTAN
1-DODECYL MERCAPTAN

M-LAURYL MERCAPTAN
1-MERCAPTODODECANE
NCI-C60935

TOXICITY DATA:

cyt-rat-ihl 5020 ug/m3/16W

CODEN:

BZARAZ 27,102,74

Reported in EPA TSCA Inventory, 1980.

THR: See mercaptans. MUT data.

Fire Hazard: Low.

To Fight Fire: Alcohol foam.

Disaster Hazard: When heated to decomp it emits tox fumes of SO₂.

LAURYL PYRIDINIUM LAURYL XANTHATE

CAS RN: 14917965

NIOSH #: UU 5775000

mf: C₁₇H₃₀N•C₁₃H₂₅OS₂; mw: 509.98

TOXICITY DATA:

skn-rbt 500 mg/24H MOD
eye-rbt 20 mg/24H SEV
ori-rat LD50: 802 mg/kg

2

CODEN:

28ZPAK -,174,72
28ZPAK -,174,72
28ZPAK -,174,72

THR: MOD orl. A skn, eye irr.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and SO₂.

LAURYL SULFATE, SODIUM SALT, CONDENSED WITH 3 MOLES OF ETHYLENE OXIDE

NIOSH #: OF 5725000

SYNS:

SODIUM SALT OF SULFATED
BROAD-CUT COCONUT
ETHOXY(3EO) ALCOHOL

SODIUM SALT OF SULFATED
ETHOXYLATE OF BROAD-CUT
LAURYL ALCOHOL

TOXICITY DATA:

skn-rbt 10 mg MLD
skn-rbt 230 mg/5W open MLD
skn-gpg 115 mg/5W open MLD

2

CODEN:

JSCCA5 22,411,71
JSCCA5 22,411,71
JSCCA5 22,411,71

THR: A skn irr.

Disaster Hazard: When heated to decomp it emits tox fumes of SO₂.

LAVANDIN OIL

CAS RN: 8022159

NIOSH #: OF 6097500

Main constituent is Linalool; found in plant Lavanoula Hybrida Reverchon; prepared by steam distillation of the flowering stalks of the plant.

SYN: OIL OF LAVANDIN

TOXICITY DATA:

skn-rbt 500 mg/24H MLD

2

CODEN:

FCTXAV 14,443,76

Reported in EPA TSCA Inventory, 1980.

THR: A skn irr.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

LAVATAR

NIOSH #: OF 6097840

Coal tar distillates in a shampoo base.

TOXICITY DATA:

mma-sat 25 ug/plate

CODEN:

TOLED5 3,325,79

THR: MUT data.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

LAVENDER ABSOLUTE

NIOSH #: OF 6100000

Found in the flowers of Lavandula Officinalis chaix. The main constituent is Linalyl Acetate; prepared from alcoholic extract of a residue, which is extracted from plant material using an organic solvent; a dark green liquid.

TOXICITY DATA:

skn-rbt 500 mg/24H MLD
ori-rat LD50: 4250 mg/kg

1

CODEN:

FCTXAV 14,443,76
FCTXAV 14(5),443,76

THR: LOW orl; A skn irr.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

LAVENDER OIL

CAS RN: 8000280

NIOSH #: OF 6110000

Main constituent is linalyl acetate. Found in the plant Lavandula officinalis choix (Fam. Labiate). Prepared by steam distillation of the flowering stalks of the plant.

SYNS:

LAVENDEL OEL (GERMAN)

OIL OF LAVENDER

TOXICITY DATA:

skn-rbt 500 mg/24H MLD
ori-rat LD50: 9040 mg/kg

1

CODEN:

FCTXAV 14,443,76
PHARAT 14,435,59

Reported in EPA TSCA Inventory, 1980.

THR: LOW orl. A skn irr.

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

LD-813

CAS RN: 64083052

NIOSH #: OF 6730000

Commercial mixture of aromatic amines containing approx. 40% MOCA

TOXICITY DATA:

ori-rat TDLo: 37 gm/kg/2Y-C: CARC

3

CODEN:

TXAPA9 31,159,75

THR: An exper CARC. See also aromatic amines.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

LEAD

CAS RN: 7439921

NIOSH #: OF 7525000

mf: Pb; mw: 207.19

Bluish-gray, soft metal. mp: 327.43°, bp: 1740°, d: 11.34 @ 20°/4°. vap. press: 1 mm @ 973°.

SYNS:

C.I. 77575

LEAD FLAKE

LEAD S2

OLOW (POLISH)

TOXICITY DATA: 3

ori-rat TDLo: 790 mg/kg (MGN)
ori-rat TDLo: 1140 mg/kg (14D pre-
21D post)
ori-mus TDLo: 1120 mg/kg (MGN)
ori-mus TDLo: 6300 mg/kg (1-21D
preg)
ori-mus TDLo: 12600 mg/kg (1-21D
preg)
ori-mus TDLo: 4800 mg/kg (1-16D
preg)
ivn-ham TDLo: 50 mg/kg/(8D
preg): TER
ori-dom TDLo: 662 mg/kg (1-21W
preg)
ivn-ham TDLo: 50 mg/kg/(8D
preg): TER
ori-wmn TDLo: 450 mg/kg/6Y: CNS
ipr-rat LDLo: 1000 mg/kg
ori-pgn LDLo: 160 mg/kg

CODEN:

AEHLAU 23,102,71
PHMCAA 20,201,78
AEHLAU 23,102,71
EXPEAM 31,1312,75
EXPEAM 31,1312,75
BECTA6 18,271,77
TXAPA9 25,466,73
EXPEAM 25,56,69
JAMAAP 237,2627,77
EQSSDX 1,1,75
HBAMAK 4,1289,35

Carcinogenic Determination: Indefinite IARC** 23, 325,80.

TLV: AIR: 0.15 mg/m³ DTLVS* 4,243,80; *Toxicology Review*: TRBMAV 33(1),85,75; PGMJAO 51(601),783,75; JDSCAE 58(12),1767,75; IRXPAT 12,1,73; CTPHBG 55,147,71; CTOXAO 6(3),377,73; QURBAW 7(1),75,74; RREVAH 54,55,75; JAVMA4 164(3),277,74; AEMBAP 40,239,73; CTOXAO 5(2),151,72; FOREAE 7,313,42; KOTTAM 11(11),1300,75; GEIGAI 20(3),291,73; STEVA8 2(4),341,74; CLCHAU 19,361,73; AJMEAZ 38,409,65; 85DHAX PB,254,72; PDTNBH 6,204,77; AMTODM 3,209,77. OSHA Standard: Air: TWA 200 ug/m³ (SCP-O) FEREAC 39,23540,74. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m³ NTIS**. "NIOSH Manual of Analytical Methods" VOL 1 102,191,195,200,208,214,262, VOL 3 S341. Reported in EPA TSCA Inventory, 1980.

THR: See lead compounds. A hmn CNS. HIGH ori; MOD irr. A common air contaminant. It is a \pm CAR of the lungs and kidney and an exper TER.

Fire Hazard: Mod, in the form of dust when exposed to heat or flame. See also powdered metals.

Explosion Hazard: Mod, in the form of dust when exposed to heat or flame.

Incomp: NH₄NO₃, ClF₃, H₂O₂, NaN₃, Na₂C₂, Zr. disodium acetylide; oxidants.

Disaster Hazard: Dangerous; when heated, emits highly tox fumes; can react vigorously with oxidizing materials.

For further information see Vol. 1, No. 1 of *DPIM Report*.

LEAD ACETATE

CAS RN: 301042

mf: C₄H₆O₄•Pb; mw: 325.29

NIOSH #: AI 5250000

Trihydrate, colorless crystals or white granules or powder. Slightly acetic odor; slowly effloresces; d: 2.55; mp: 75° when rapidly heated. Decomp above 200°; very sol in glycerol. Keep well closed.

SYNS:

ACETIC ACID LEAD (2+) SALT
ACETATE DE PLOMB (FRENCH)
BLEIACETAT (GERMAN)
LEAD (2+) ACETATE
LEAD(II) ACETATE
LEAD DIACETATE

LEAD DIBASIC ACETATE
NORMAL LEAD ACETATE
PLUMBOUS ACETATE
SALT OF SATURN
SUGAR OF LEAD

TOXICITY DATA: 3

dns-rat-iplr 50 ug/kg
spm-mus-par 1 gm/kg
ori-rat TDLo: 7854 mg/kg (6-16D
preg)
ori-rat TDLo: 1800 mg/kg (1-22D
preg/14D post)
ori-rat TDLo: 113 gm/kg (70D pre-
21D post)
ori-mus TDLo: 3150 mg/kg (1-21D
preg)
ori-mus TDLo: 4800 mg/kg (1-8D
preg)
ori-mus TDLo: 9 gm/kg (7-21D preg)
ipr-mus TDLo: 35 mg/kg (8D preg)
ivn-ham TDLo: 50 mg/kg/(8D
preg): TER
ivn-ham TDLo: 50 mg/kg (8D preg)
ipr-pgn LDLo: 150 mg/kg
cyt-hmn: lym 1 mmol/L/24H
cyt-mus-ori 16800 mg/kg/4W
cyt-mky-ori 5760 mg/kg/64W
ipr-mus TDLo: 15 mg/kg/(8D
preg): TER
ivn-ham TDLo: 50 mg/kg/(8D
preg): TER
ori-rat TDLo: 250 gm/kg/47W-
C:ETA
ipr-rat LDLo: 204 mg/kg
ipr-mus LD50: 120 mg/kg
ori-dog LDLo: 300 mg/kg
scu-dog LDLo: 80 mg/kg
ivn-dog LDLo: 300 mg/kg
scu-cat LDLo: 100 mg/kg
scu-rbt LDLo: 300 mg/kg
ivn-rbt LDLo: 50 mg/kg
scu-frg LDLo: 1600 mg/kg

CODEN:

PSEBAA 143,446,73
ARTODN 46,159,80
FCTXAV 13,629,75
TOLED5 7,373,80
PBBHAW 8,347,78
CRSBAW 170,1319,76
CRSBAW 172,1037,78
CRSBAW 170,1319,76
BIMDB3 30,223,79
EXMPA6 7,208,67
EXPEAM 25,56,69
ARTODN 46,265,80
TXCYAC 10,67,78
JTEHD6 2,619,77
MUREAV 45,77,77
BIMDB3 30,223,79
EXMPA6 7,208,67
BJCAAI 16,283,62
JPETAB 38,161,30
COREAF 256,1043,63
HBAMAK 4,1289,35
HBAMAK 4,1289,35
EQSSDX 1,1,75
HBAMAK 4,1289,35
HBAMAK 4,1289,35
EQSSDX 1,1,75
HBAMAK 4,1289,35

Carcinogenic Determination: Animal Positive IARC** 23,325,80; Human Suspected IARC** 23,325,80. *Toxicology Review*: ADTEAS 5,51,72; ENVRAL 13,36,77; 85DHAX Pb,256,72. OSHA Standard: Air: TWA 200 ug(Pb)/m³ (SCP-O) FEREAC 29,23540,74. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m³ NTIS**. Reported in EPA TSCA Inventory, 1980.

THR: MUT data. An exper + CARC, TER, ETA. A susp hmn CARC; HIGH ipr, ori, scu, ivn. See also lead compounds. A poison. An insecticide.

Disaster Hazard: When heated to decomp it emits tox fumes of Pb.

Incomp: KBrO₃; acids, sol sulfates, citrates, tartrates, chlorides, carbonates, alkalies, tannin phosphates, resorcinol, salicylic acid, phenol, chloral hydrate, sulfites, vegetable infusions, tinctures.

For further information see Vol. 1, No. 4 of *DPIM Report*.

LEAD ACETATE, BASIC

CAS RN: 1335326

mf: C₄H₁₀O₈Pb₃; mw: 807.71

NIOSH #: OF 8750000

HANDBOOK OF TOXIC AND HAZARDOUS CHEMICALS AND CARCINOGENS

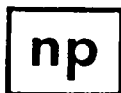
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DEPARTMENT OF ENVIRONMENTAL REGULATION

The
Condensed Chemical
Dictionary

TENTH EDITION

Revised by

GESSNER G. HAWLEY



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INTRO

ABBRE

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I

Casarett and Doull's
TOXICOLOGY

The Basic Science of Poisons

SECOND EDITION

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Time In 1015

Reference 17

Time Out _____

9/15/74

FACILITY INSPECTION WORK SHEET

Source Name STAG'S RADIATOR Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency _____

1. FRENCH DRAIN W/ PIT Yes ☒ No _____ 4.

2. PIT (EAST SIDE) Yes ☒ No _____ 5.

3. _____ Yes _____ No _____ 6.

Comments regarding problem points, corrective

Problem Points (where): NEW DRAIN SYSTEM

THIS TIME — NEW PIT, 8' X 8' X 36" DEEP

BOARD TO PREVENT CAVE-IN OF SIDES — F

DRUM INTO WHICH WASTE WATER FLOWS & THE

CORRECTIVE ACTION (what): WITH TWO 4' X 8'

AREA SURROUNDING NEW PIT IS DRY — SI

ORIGINAL PIT, EAST SIDE OF SHOP, STILL ACCEPTING WASTE FROM SHOP — WASTE IS

PUMPED TO WEST SIDE SYSTEM FROM THIS PIT —

Compliance (when): _____



Person Contacted: HAROLD JACKSON RADIATOR REPAIRMAN
Title

Next Contact Date: 10-15-76 Ray Walker
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 1025

Time Out 1100

Date 6-24-77

18

Reference 18

FACILITY INSPECTION WO.

Source Name STAGAS RADIATOR Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. FRENCH DRAIN Yes ☒ No _____ 4. _____ Yes _____ No _____
2. OUTSIDE SPRAY RACK Yes ☒ No _____ 5. _____ Yes _____ No _____
3. STEAM CLEANER Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): NO CHANGE IN OPERATIONAL STATUS
OF FACILITY SINCE LAST INSPECTION OF 3-21-77. FRENCH DRAIN
APPEARS TO BE OPERATING NORMALLY AT INSP. STEAM CLEANER NOT
IN OPERATION. RADIATORS ARE BEING DRAINED OF RUSTY WATER ON
SPRAY AREA ALONG N. SIDE OF SHOP. NO PROB. OBSV.
Corrective Action (what): → NONE PRES. REQUIRED

Compliance (when): _____

Person Contacted: JAY THOMS OWNER

Title

Next Contact Date: 9-24-77 P. JOSEPHSON
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time Out 3:25

Date 7-27-77 19

Reference 19

FACILITY INSPECTION WORK

Source Name Stag's Auto Radiator Source No. 33

☒ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. <u>French drain</u> Yes <input checked="" type="checkbox"/> No _____	4. _____ Yes _____ No _____
2. <u>inside spray area</u> Yes <input checked="" type="checkbox"/> No _____	5. _____ Yes _____ No _____
3. _____ Yes _____ No _____	6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Radiator wash water still draining to gravel & dirt alley in front of shop. French drain shows no problems at present. Steam cleaner not in use. Mr. Jackson advised there have been no changes in last 3 mos.

Corrective Action (what): None presently necessary

Compliance (when): N/A

Person Contacted: Harold Jackson Employee
Title

Contact Date: 12-27-77 S. Stenness
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

Reviewed: ☐ Yes ☐ No

Time Out 1220

ate

11/15/78

20

Reference 20

FACILITY INSPECTION

Source Name Stag's Radiator Source No. 331

☐ Checked Permit Conditions ☐ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. French Drain Yes ☒ No _____ 4. _____ Yes _____ No _____
2. Spray Area Yes ☒ No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Spraying done outside Bldg against wall. Pump for drainage system has been removed for repair. Next inspector should check efficiency of new pump/drainage system. No problems noted.
Corrective Action (what): None.

Compliance (when): N/A

Person Contacted: Mr. Ornstein Employee
Title

Next Contact Date: 2/15/79 J. Coppola
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____
N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time In 11:30
Time Out 12:00

Date 6-26-79

Reference 21

FACILITY INSPECTION

Source Name Stags Radiator Source No. 331

☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

N/A
Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. Drainfield (outside) Yes X No _____ 4. _____ Yes _____ No _____
2. Spray rack (inside) Yes X No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): NEW LOCATION and NEW DATA SHEET

Corrective Action (what): _____

Compliance (when): _____

Person Contacted: Dave Crain Mgr.
Title

Next Contact Date: 7-26-79 B. Jett
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____
N.O.V. Sent: ☐ Yes ☐ No Date: _____

Time Out 1330

Date 1/1/81

Reference 22

FACILITY INSPECTION WORK

Source Name Stag's Radiator Source No. 357

☒ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. Spray Rack Yes ☒ No _____ 4. _____ Yes _____ No _____
2. Drumfield Yes ☒ No _____ 5. _____ Yes _____ No _____
3. _____ Yes _____ No _____ 6. _____ Yes _____ No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): observed both spray rack & Drumfield
reveal NO particulates emissions, also NO LOUD OILY RICKS.

Corrective Action (what): N/A

Compliance (when): N/A

Person Contacted: Dave Crain HR Title

Next Contact Date: Jan 30, 1981 P.R. Helton Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____

Date: 1/20/81 EC Staff J. C. [unclear] (17) itchy ref 6
1. Source Name Stage Reduction ~~EST. 11/20/81~~ ~~HAVE MOVED~~

Address 2868 ~~W. Sam Houston Blvd~~ Street 2804 N.W. 30 AVE
Mailing Address (if different) Phone City & State Zip
Reference 23

3. Name of Principle Jay Thomas Owner Title 485-5300
587-7744
Phone

4. Person Contacted Dave Gisin Name Title Mgr. 485-5300
587-7744
Phone

5. Type Operation Reduction Repair SIC#

6. Processes Employed Flush out, cassette work, Solbling, Spray paint

7. On Public Sewers Yes ☒ No POTW

8. Disposal of Industrial Effluent and Treatment Supernatants & Rinse Solutions
to Drainfield - Sludge from test tanks to dumpster

9. Special Treatment for Conc. Wastes 75 gal of test tank bottoms to dumpster

10. Processing Tanks (not rinses) Size and Solution

Catatic Wash
Flush Back
2- Test Tanks

1. Total Processing Water Usage Well water used - High Volume

2. Sludge Generated and Materials Disposal

Quan/Month	Type	Disposal Means
Flush Back	Septic tank (55 gal drum)	Drainfield
	↳ Solids to dumpster 50 gal/yr	
Test tank	Solids reclaimed - 150 lbs/yr	drained to Septic tank
2nd Test Tank (25 gal/yr)	↳ dumpster	Septic tank

EQCB NOTES WM
Drainfield blockage - all rinses & tank discharges
directed to ground surface on South Side of field.
- note: Issued "suggestion" that drainfield be reconnected
before scheduled enforcement inspection is made.

Time Out 1345

11/1/81

FACILITY INSPECTION REPORT

Reference 24

Source Stage Radiator Source No. 331

Potential Pollution Emission Pts.
*(Problem)

Control Equipment (E)/Procedures (P)

	In Use	Not In Use	Effective	Ineffective
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____

Comments: Facility has closed at this locale. No
activity in bldg. Bldg locked. Sign on bldg stated
that facility has moved to: 2804 N. 42nd, 30th Ave
Oakland Park

Person Contacted: None Title _____

Next Contact Date: _____ Inspector(s) J. Capala

OFFICE USE ONLY

Referred To: ☐ Air ☐ Wastewater Eng. Date: _____ REF.# _____

Warning Notice Issued: At Insp. _____ From Office: _____ Date _____

Citation Issued: At Insp. _____ From Office: _____ Date _____

RCRA FACILITY PERMIT APPLICATION TRACKING LOG - ACTIVE FACILITIES APPLICATION LIST

05/03/89

Facility Name City County	Unit Type/ Codes	Per. Type PATIS No. EPA ID No.	In Tall.	MOD	Sent	Response	Complete	Draft Permits	Intent	Public. News./ Radio	Issued/ Expires/ Status	Comments
SOUTHERN WOOD PIEDMONT BALDWIN DUVAL	LD NE	POST HP16-094370 FLD004053450	02/08/88	/	/	/	/	08/27/87 05/27/88	10/22/87 03/30/88	06/13/88 06/11/88	08/12/88 08/11/93	ACL INFO FROM FSU 2/5/88. SMU PERMIT 9/28/88. Issued
SPARKLE CORP. TAMPA HILLSBOROUGH	S S02 SW	CLOS HF29-150056 FLD076813302	06/09/88	/	/	/	/	09/09/88 09/15/88	10/14/88	10/21/88 10/27/88	12/21/88 12/31/89	PROOF OF PUBLICATION (RADIO & NEWSPAPER) ISSUANCE OF PERMIT. Issued
SPARKLE CORPORATION TAMPA HILLSBOROUGH	S S01 SW	CONSTR HC29-149120 FLD982121592	05/12/88	/	/	/	/	07/26/88 08/08/88	10/31/88	11/04/88 11/06/88	12/21/88 12/31/89	DER: FAC PUBLISH NOTICE OF APPLICATION. APPLICATION ADDITIONAL SUBMITTALS. SUP TO APP/VERIFICATION OF PUBLICATION. PROOF OF PUBLICATION(NEWSPAPER & RADIO). ISSUANCE OF PERMIT. Issued
TRAK MICROWAVE TAMPA HILLSBOROUGH	LD S04 SW	CLOS HF29-120188 FLD004093621	05/15/86	07/14/86	10/24/86	01/25/88	07/13/87	01/25/88	02/10/88 02/21/88	04/27/88 10/27/89	AS SPECIFIC CONDITIONS 3/17/87. DRAFT PERMIT 7/13/87. Issued	TRAK COMMENTS ON INTENT 2/18/88. SPECIFIC CONDITION 11-8 SUBMITTAL. SPEC CONO SUBMITTAL #'S V-4, VII-3 & 4. SUBMITTAL SATISFIES SPEC CONO MOD OF CONDITION/EXPIRATION DATE CHANGE.
TRANS PAC INC. TIERRA VERDE ESCAMBIA	S S01 NW	CONSTR HC17-157682 APPLIED FOR	12/07/88	01/13/89	02/09/89	/	/	/	/	/	/	RESPONSE TO 1ST MOD. / / / /
TRICIL RECOVERY SERVICES BARTOW POLK	S S01 SW	OPER HO53-086011 FLD980729610	04/30/84	02/26/85	03/14/85	08/13/85	03/29/85 08/16/85	08/13/85	08/22/85 08/22/85	11/06/85 11/06/90	PERMIT MODIFICATION REQUESTS 11/10/86, 11/21/86. Issued	INTENT TO ISSUE(MODIFICATION).
TYNDALL AIR FORCE BASE TYNDALL AFB BAY	S S01 NW	CLOS HF03-143909 FL1570024124	12/28/87	02/09/88	/	/	04/19/88	04/29/88	07/07/88	08/04/88 08/04/88	09/20/88 01/01/89	FIRST MOD 2/9/88. DRAFT PERMIT TO FAC FOR COMMENT 04/27/88 Expired INTENT TO ISSUE. ISSUANCE OF PERMIT.
U.S. DEPARTMENT OF ENERGY LARGO PINELLAS	S S02 SW	CLOS HF52-135790 FL6890090008	06/29/87	12/31/87	01/25/88	/	/	/	03/23/88	04/01/88 04/01/88	05/24/88 12/31/88	FOR MIXED WASTE TANKS. 1ST MOD 12/31/87. RESPONSE 1/25/88. Expired 2ND MOD 2/23/88.

key: LD = Land Disposal
S = Storage
T = Treatment

S01 = Containers
S02 = Storage Tanks
S03 = Storage Waste Piles
S04 = Storage Surface Imp.

D80 = Landfills
D81 = Land Treatment
D83 = Disposal Surface Imp.

T01 = Treatment Tanks
T02 = Treatment Surface Imp.
T03 = Incinerators
T04 = Other treatment

OPER = Operating Permit
CLOS = Closure Permit
TOP = Temp. Operating Permit
CONSTR = Construction Permit

HWR07A
REPORT DATE 86/12/08

HWDMs LISTING
BY NAME

PAGE 2

FACILITY ID CONTACT PH#	FACILITY NAME CONTACT	NOTIF DATE	MAIL STREET LOC STREET	MAIL CITY LOC CITY	ST MZIP ST LZIP	G T T U I I CO E R S I N NF N N D C T IN	FACIL- PERMIT STATUS STATUS
FLD002172351 3059731500	SPRAYMATION INC GRIFFIN RICHARD A GEN M*	850513	6788 NW 17TH AVE 6788 NW 17TH AVE	FT LAUDERDALE FT LAUDERDALE	FL 33309 1 FL 33309		
FLD981758253 3052215769	SPRUCE CLEANERS MARTINEZ JOSE	861115	8710 SW 40 ST 8710 SW 40 ST	MIAMI MIAMI	FL 33165 2 FL 33165		C119-2
FLD067242636 8194472511	SQUARE D CO THOMPSON RICK SUPV SAFE*	800818	PO BOX 6440 2005 CALUMET ST	CLEARWATER CLEARWATER	FL 33518 1 FL 33515		00
FLD980559090 8135417744	SQUARE D CO BUCHANAN JERRY PLANT ENG	810520	PO 4000 11111 BELCHER RD 11111 BELCHER RD	PINELLAS PARK PINELLAS PARK	FL 33565 1 FL 33565		
FLD115181943 3057228860	SQUIRE CLEANERS AMIEL ALAIN	850603	6301 W COMMERCIAL BLVD 6301 W COMMERCIAL BLVD	TAMARAC TAMARAC	FL 33319 1 FL 33319		
FLD981031669 9047638911	ST ANDREWS CLEANERS & COIN LAUN* MARTIN JOHN R TREAS	850624	2623 W 15TH ST 2623 W 15TH ST	PANAMA CITY PANAMA CITY	FL 32401 1 FL 32401		
FLD038501649 9043288340	ST AUGUSTINE BOAT WORKS INC NON NOTIFIER	860505	PO BOX 1318 ST JOHNS RIVER BARGE PORT	PALATKA PALATKA	FL 32077 2 FL 32077		
FLD981471386 3059571112	ST CLOUD AUTO BODY MATTHEWS WAYNE	860519	24 E 12TH ST 24 E 12TH ST	ST CLOUD ST CLOUD	FL 32769 2 FL 32769		00
FLD043048008 9042271171	ST JOE CONTAINER COMPANY TAYLOR LEWIS ENV COORDI*	800819	4025 HIGHWAY 60 WEST 4025 HIGHWAY 60 WEST	LAKE WALES LAKE WALES	FL 33853 1 FL 33853		
FLD061929238 9047528774	ST JOHNS CHEMICAL CORP JOHN HOLCOMB PLANT ENVI*	840403	PO BOX 2117 ST ROUTE 100	LAKE CITY LAKE CITY	FL 32056 1 FL 32055		C119-2
FLD981480197 9043288321	ST JOHNS RIVER WATER MANAGEMENT* GIRARDIN, DAVID L PROJ *	861022	PO BOX 1429 2133 N WICKHAM RD	PALATKA MELBOURNE	FL 32078 2 FL 32935		C119-2
FLD150577823 9043288321	ST JOHNS RIVER WATER MGMT DIST GIRARDIN, DAVID L PROJ *	861022	PO BOX 1429 WEST HIGHWAY 100	PALATKA PALATKA	FL 32078 2 FL 32078		C119-2
FLD981747462 9043288321	ST JOHNS RIVER WATER MGMT DIST GIRARDIN DAVID	860826	PO BOX 1429 RT 1 BOX 510	PALATKA OKLAHAWA	FL 32078 2 FL 32679		C119-2
FLD981022643 8138704570	ST JOSEPHS HOSPITAL JONES JOHN	851126	PO BOX 4227 3001 W BUFFALO AVE	TAMPA TAMPA	FL 33677 1 FL 33607		00
FLD991274945 3054657555	ST LUCIE PACKING CORP JACOBS WILLIAM C	801103	1900 OLD DIXIE HWY 1900 OLD DIXIE HWY	FORT PIERCE FORT PIERCE	FL 33450 1 FL 33450		00

FACILITY ID CONTACT PH#	FACILITY NAME CONTACT	NOTIF DATE	MAIL STREET LOC STREET	MAIL CITY LOC CITY	ST MZIP ST LZIP	G T T U I CO E R S I N NF N N D C T IN	FACIL. PERMIT STATUS STATUS
FLD072231954 3058446300	ST MARYS HOSPITAL INC MEIRA ENRIQUE DIR ENGIN*	800818	901 45TH ST 901 45TH ST	WEST PALM BEACH WEST PALM BEACH	FL 33407 2 FL 33407	00	
FLD981751738 8133474103	ST PETE TOYOTA BELANGER PAUL	861108	3433 TYRONE BLVD 3433 TYRONE BLVD	ST PETERSBURG ST PETERSBURG	FL 33710 1 FL 33710		C119-2
FLD037824174 8135252141	ST PETERSBURG AMC JEEP RENAULT YORK R	860918	4650 34TH ST N 4650 34TH ST N	ST PETERSBURG ST PETERSBURG	FL 33714 1 FL 33714		C119-2
FLD069657567 8138212021	ST PETERSBURG OSTEOPATHC FLYNN CHUCK	860117	401 15 ST N 401 15TH ST N	SAINT PETERSBURG ST PETERSBURG	FL 33733 2 FL 33705	00	
FLD981474638 8138938466	ST PETERSBURG TIMES LOPEZ KARI PURCHASING A*	860611	1301 34TH STREET N 1301 34TH STREET N	ST PETERSBURG ST PETERSBURG	FL 33713 1 FL 33713		
FLD008166639 9049682121	ST REGIS PAPER CO TRACY JUSTUS ENVIRON EN*	800818	PO BOX 87 JCT US 29 N & MUSKOGEE RD	CANTONMENT CANTONMENT	FL 32533 1 FL 32533	00	
FLD045003613 8134653413	ST REGIS PAPER CO GOSE JOHN PURCHASING MGR	800818	RR3 BOX 564F FLORIDA STATE ROUTE 70	LAKE PLACID LAKE PLACID	FL 33852 1 FL 33852	00	
FLD981478555 3054214290	STAINLESS INCORPORATED OTI WOOSTER, H R DIR	860731	125 S E 5TH COURT 125 S E 5TH COURT	DEERFIELD BEACH DEERFIELD BEACH	FL 33441 2 FL 33441		C119-2
FLD981025281 9045758181	STANADYNE LEWIS LARRY	851106	2919 COMMONWEALTH BLVD 2919 COMMONWEALTH BLVD	TALLAHASSEE TALLAHASSEE	FL 32303 2 FL 32303		
FLD004126520 3058852528	STANDARD AUTO BUMPER CORP YACCO JOE PRESIDENT	800808	2500 WEST 3RD COURT 2500 WEST 3RD COURT	HIALEAH HIALEAH	FL 33010 2 FL 33010	00	
FLD038496147 8139559015	STANDARD AUTOMTOIVE MACHINE LEVKOFF DOUG	861108	1517 STATE ST 1517 STATE ST	SARASOTA SARASOTA	FL 33577 2 FL 33577		C119-2
FLD000772228 3052572511	STANDARD TRANSPICE CORP CAPPS E W TERMINAL SUPT	800816	13195 SW 288TH STREET 13195 SW 288TH ST	HOMESTEAD HOMESTEAD	FL 33033 1 FL 33033	00	
FLD981758527 9044885676	STANDARDS PORT EVERGLADES HOSID WAYNE	861115	THE CAPITOL - ROOM 1003 3450 SE 18TH AVE	TALLAHASSEE FT LAUDERDALE	FL 32301 3 FL 33335		C119-2
FLD981471014 3058637550	STANDEX ELECTRONICS PETERS ROD	860505	PO BOX 10147 3750 PROSPECT AVE	RIVIERA BEACH RIVIERA BEACH	FL 33404 1 FL 33404		
FLD981479074 3053315833	STAR BRITE CLEANERS MCDUFFIE JAMIE	861129	1201 W HWY 434 1201 W HWY 434	WINTER SPRINGS WINTER SPRINGS	FL 32708 1 FL 32708		C119-2

Time In 13:15Time Out 14:00Date 4/26/76FACILITY INSPECTION WORK SHEETSource Name Stacy's Radiator Source No. 331☐ Checked Permit Conditions ☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. <u>Spray Wash</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	4. _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2. <u>55 gallon gravel drain</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	5. _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3. _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>	6. _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Three weeks ago Mr. Mincher tried to hook-up a PVC pipe to rear of bldg to handle rinse water from tanks. Because there is no pressure to pass water thru line, they have scrapped the idea.

Corrective Action (what): Car steam cleaning and radiator flush out are still done in parking yard area.

Compliance (when): ok.Person Contacted: Mr. MincherMr. _____
TitleNext Contact Date: 5-26-76Rich Hocht
Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☒ Water (Engineering)Date: 4/27/76N.O.V. Sent: ☐ Yes ☐ No

Date: _____

Time In 10:30

Time Out 10:45

Date 6/25/76

28

FACILITY INSPECTION WORK

REFERENCE 28

Source Name Stacy's Radon

Source No. 331

☐ Checked Permit Conditions

☒ Checked Emission Point Data Sheet

Utilized Inspection Point Sheet No. _____ Problem Points _____

Present Pollution Control Device Efficiency

1. <u>Exhaust Fan</u>	Yes <input checked="" type="checkbox"/>	No _____	4. _____	Yes _____	No _____
2. <u>French Drains</u>	Yes <input checked="" type="checkbox"/>	No _____	5. _____	Yes _____	No _____
3. <u>Caustic Tank</u>	Yes <input checked="" type="checkbox"/>	No _____	6. _____	Yes _____	No _____

Comments regarding problem points, corrective action and compliance schedule:

Problem Points (where): Stacy's has installed another french drain on the west side of bldg. This drain has 3' of gravel in bottom of hole, followed by concrete blocks as a base for a perforated 55 gal drum loaded with gravel. This satisfies the

Corrective Action (what): Notice of Violation issued. No other problems observed.

Compliance (when): OK

Person Contacted: Jay Thomas

Owner

Title

Next Contact Date: 7-26-76

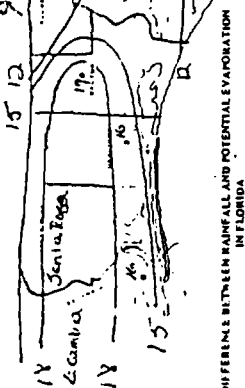
Rick Hacht

Inspector

OFFICE USE ONLY

Referred to: ☐ Air ☐ Water (Engineering) Date: _____

N.O.V. Sent: ☐ Yes ☐ No Date: _____



THE DIFFERENCE BETWEEN RAINFALL AND POTENTIAL EVAPORATION IN FLORIDA

P. W. Vickers and G. M. Hughes

UNITED STATES GEOLOGICAL SURVEY
BULLETIN 1452

BUREAU OF GEOLOGY
FLORIDA DEPARTMENT OF NATURAL RESOURCES
G. L. LEITCH, JR., DIRECTOR

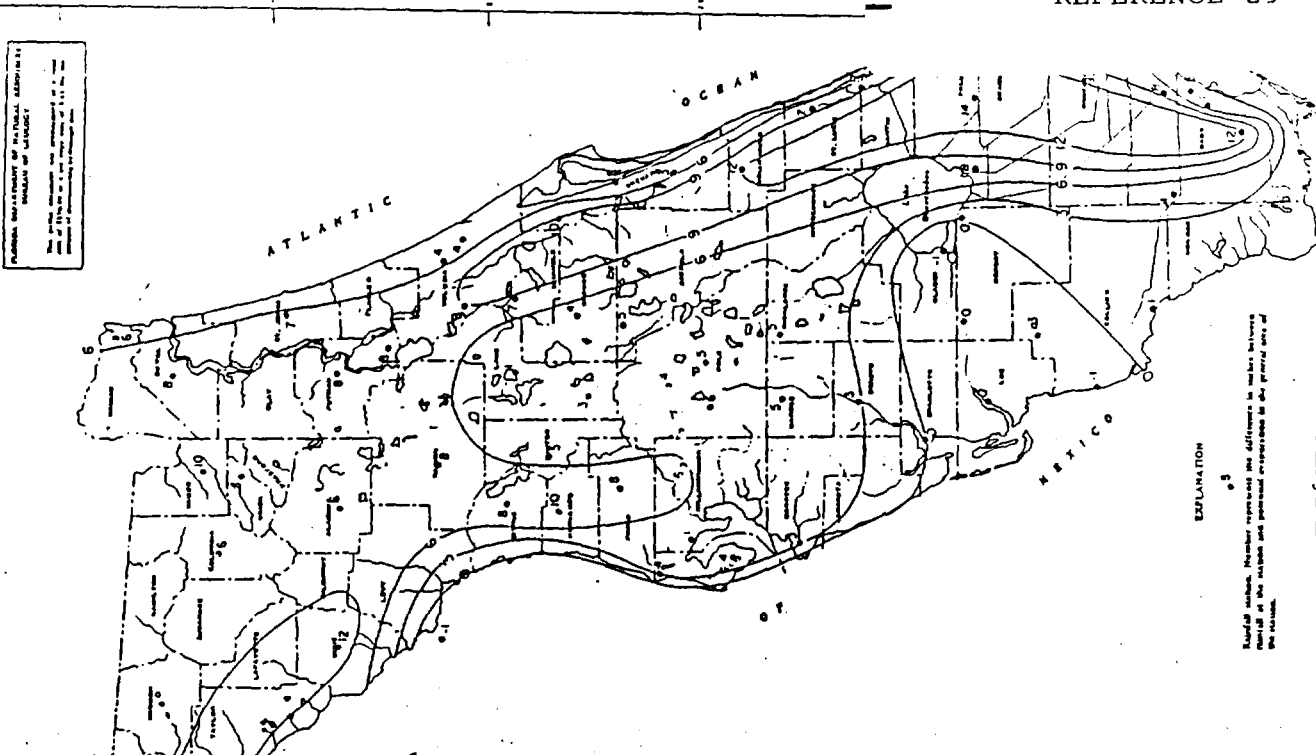
1949
SECOND EDITION 1961

[illegible][illegible]

The other doses by the magnitude were found to be associated with factors such as social relations, work conditions, or home conditions. Therefore, all of which are negatively related to life expectancy. The magnitude of the effect of the dose of the treatment was also found to be different in each country. For example, a representative dose in Italy was 100 mg, while in the United States it was 150 mg. In the United States, the dose of 150 mg was found to be the most effective dose in terms of life expectancy. In Italy, the dose of 100 mg was found to be the most effective dose in terms of life expectancy. In the United States, the dose of 150 mg was found to be the most effective dose in terms of life expectancy. In Italy, the dose of 100 mg was found to be the most effective dose in terms of life expectancy.

the difference between yearly rainfall and yearly potential evaporation for Florida, Hawaii and New York for the years 1950-54. The results are shown in Table 1. The mean annual rainfall for the period 1931-46 for Florida, Hawaii and New York is 50.5, 60.5 and 47.5 inches, respectively. The mean annual potential evaporation for the same period is 59.5, 65.5 and 54.5 inches, respectively. The difference between rainfall and potential evaporation for Florida is -9.0 inches, for Hawaii is -5.0 inches, and for New York is +7.0 inches. The difference between rainfall and potential evaporation for Florida is -9.0 inches, for Hawaii is -5.0 inches, and for New York is +7.0 inches. The difference between rainfall and potential evaporation for Florida is -9.0 inches, for Hawaii is -5.0 inches, and for New York is +7.0 inches.

In treatment groups, the difference between models had predicted variance explained was 1.0 to 2.0 times as strong (but not statistically significant) as the difference between models had predicted variance explained in the part of the treatment flow that had no treatment (Table 1). Large model differences were found in the treatment flow that had no treatment, but not in the treatment flow that had treatment. The difference between models had predicted variance explained was 1.0 to 2.0 times as strong (but not statistically significant) as the difference between models had predicted variance explained in the part of the treatment flow that had no treatment, but not in the treatment flow that had treatment. The difference between models had predicted variance explained was 1.0 to 2.0 times as strong (but not statistically significant) as the difference between models had predicted variance explained in the part of the treatment flow that had no treatment, but not in the treatment flow that had treatment.

[illegible]

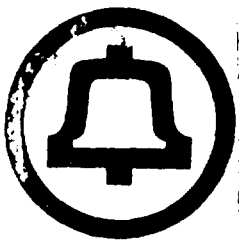
EXPLANATION

labeled as such. The numbers represent the difference in numbers between the total of the children and personnel responsible for the general care of the nation.

The line marks the approximate boundary of areas where the difference between rainfall and potential evaporation is generally the same within a range of 3 units. The figure represents one of the climate maps of the range of variation for adjustment after working to an upper limit for the area and the lower limit for the other.

ENDING

[illegible]



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Greater Ft. Lauderdale Yellow Pages

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(Action Continued Next Page)

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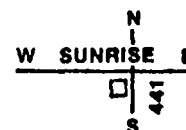


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Lucas Girling

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 8AM — 3PM



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 1187 N. STATE RD. 7 (441) **963-2992**

HALLANDALE
 730 W. HALLANDALE BLVD. **458-1312**

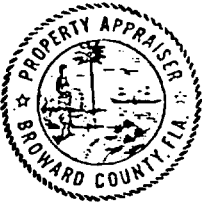
OAKLAND PARK
 854 E. OAKLAND PARK **563-2288**

DANIA
 265 S. FEDERAL HWY. **920-8228**



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WILLIAM MARKHAM, C.F.A.
BROWARD COUNTY PROPERTY APPRAISER

Broward County Governmental Center
 115 S. Andrews Avenue • Room #111
 Fort Lauderdale, Florida 33301-1896
 Telephone: 357-6830

This is to acknowledge receipt of your recent request. The information requested is as follows:

- () Name of Owner RICHARD & RITA CASE
- () Address according to our records 949 HILLSBORO MILE
HILLSBORO BEACH FLA 33062
- () Real Estate Number 0101-40-001
- () Legal Description CASE-ACURA PLAT
125-14B PARCEL A, B, C
- () Assessed Valuation \$2,456,660.
- () Homestead Exemption applied for in 19

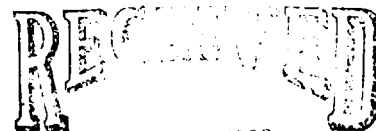
If we can be of any further assistance, please do not hesitate to contact this office.

Very truly yours,

WILLIAM MARKHAM, CFA
 Broward County Property Appraiser

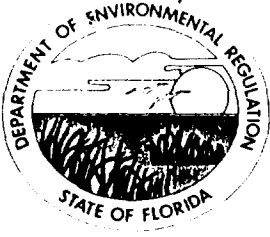
Researched by *[Signature]*

Date 8/2/89



AUG 4 1989

BUREAU OF WASTE CLEANUP
 Twin Towers



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

July 24, 1989

Broward County Property Appraiser
701 N. Federal Highway
Pompano Beach, Florida 33060

Dear Sirs:

Please, identify the owner of the property located at 941 N.W. 40th Avenue, in Plantation. The property is presently occupied by Global Import Auto Parts and formerly occupied by Stag's Auto Radiator. I have enclosed 2 maps to help you locate the site.

Thank you.

Sincerely,

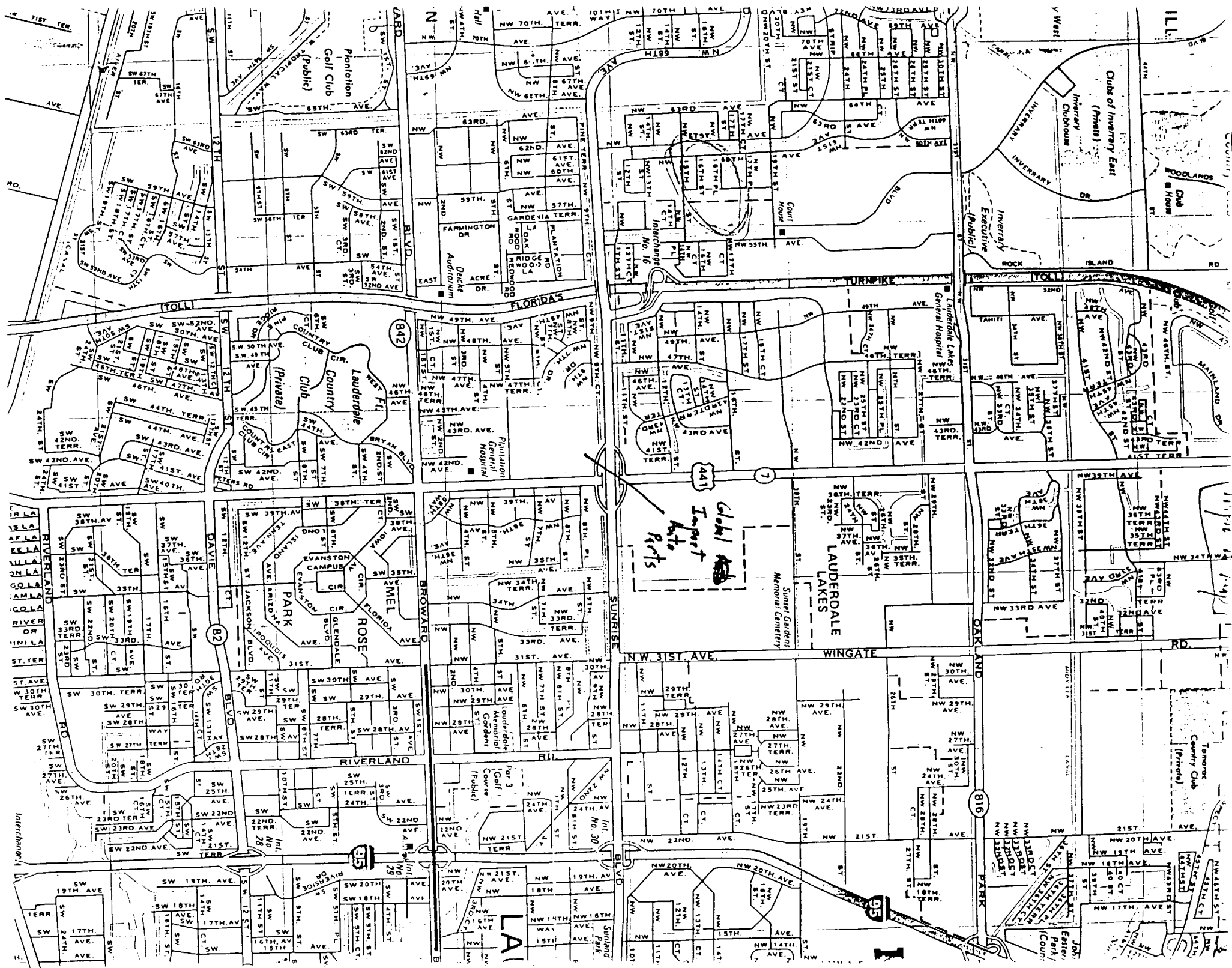
Craig F. Feeny
Environmental Specialist II
Bureau of Waste Cleanup

CFF/mlr

Enclosure

BUREAU OF WASTE CLEANUP
TWIN TOWERS





STAGS AUTO RADIATOR
FLD057973646
PRELIMINARY ASSESSMENT

A. SITE DESCRIPTION. The Stags Auto Radiator site is located at 941 N.W. 40th Avenue, Plantation, Broward County, Florida. The site was a small radiator repair shop that operated in 1979 and 1980.

B. DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS AND PERMIT VIOLATIONS. The facility discharged rinsewater from the radiator cleaning operation into a small drainfield behind the shop. During the years of operation, Broward County inspectors did not observe violations of the county codes. A FDER inspector on July 30, 1985, however, observed evidence of past discharges of coolant and rinsewater on the ground surface.

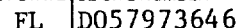
C. NATURE OF HAZARDOUS MATERIALS. The materials present may be oil, grease, acid and paint. These materials include substances that are toxic, corrosive, flammable and volatile.

D. ROUTES OF CONTAMINATION. Possible routes of contamination include groundwater used for irrigation and other purposes, surface water and direct contact with potentially contaminated soil.

E. POSSIBLE AFFECTED POPULATION AND RESOURCES. Area residents are provided with drinking water from the Broward County system. Contamination of the public system is unlikely. Some area residents, however, use individual wells for irrigation and other purposes, possibly exposing users and wildlife to contaminants. Potentially contaminated groundwater and surface water runoff may enter nearby manmade lakes and canals including the adjacent New River, possibly exposing recreational users and wildlife to contaminants. Potentially contaminated surface water may also seep into the groundwater during periods of recharge.

F. RECOMMENDATIONS AND JUSTIFICATION. The environmental impacts associated with this site should be minimal because the facility only generated small quantities of wastes for two years. Therefore, a low priority for inspection is recommended.

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
		01 STATE FL	02 SITE NUMBER D057973646
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Stags Auto Radiator		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 941 NW 40th Avenue	
03 CITY Plantation	04 STATE FL	05 ZIP CODE 33333	06 COUNTY Broward
07 COUNTY CODE 011		08 CONG DIST 12	
09 COORDINATES LATITUDE 26 08 00.0		LONGITUDE 080 12 00.0	
10 DIRECTIONS TO SITE (Starting from nearest public road) Proceed from Ft. Lauderdale on State Route 838. Exit south on U.S. Route 441. The site is immediately on the right.			
III. RESPONSIBLE PARTIES			
01 OWNER (If known) Stags Auto Radiator		02 STREET (Business, mailing, residential) 2804 NW 30th Avenue	
03 CITY Oakland Park	04 STATE FL	05 ZIP CODE 33333	06 TELEPHONE NUMBER (305) 731-9733
07 OPERATOR (If known and different from owner) David Crain, Manager		08 STREET (Business, mailing, residential) Same	
09 CITY Same	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER () Same
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input checked="" type="checkbox"/> C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE ____/____/____ MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input checked="" type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR: 1979 ENDING YEAR: 1980 <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED The materials present may include oil, grease, acid and paint. These materials include substances that are toxic, corrosive, flammable and volatile.			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION Discharges of rinsewater on the ground and into a drainfield may have contaminated on-site soil, groundwater and nearby surface water bodies.			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input checked="" type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT Eric Nuzie <i>Eric S. Nuzie</i>		02 OF (Agency/Organization) Florida DER	
03 TELEPHONE NUMBER (904) 488-0190			
04 PERSON RESPONSIBLE FOR ASSESSMENT David Troutman		05 AGENCY N/A	06 ORGANIZATION E.C. Jordan Co.
07 TELEPHONE NUMBER (904) 656-1293		08 DATE 09/18/85 MONTH DAY YEAR	



☒ A. TOXIC ☒ E. SOLUBLE ☒ I. HIGHLY VOLATILE
☒ B. CORROSIVE ☐ F. INFECTIOUS ☐ J. EXPLOSIVE
☐ C. RADIOACTIVE ☒ G. FLAMMABLE ☐ K. REACTIVE
☐ D. PERSISTENT ☐ H. IGNITABLE ☐ L. INCOMPATIBLE
 ☒ M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
FL D057973646

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000 + 04 NARRATIVE DESCRIPTION The site overlies the highly permeable and shallow Biscayne aquifer. Discharges of rinsewater onto the ground and into a drainfield may have contaminated the groundwater. Potentially contaminated on-site soil may also be a source of continued groundwater contamination. Area residents may utilize individual wells for irrigation and other purposes possibly exposing humans and wildlife to contaminants. No groundwater sampling has been reported.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000 + 04 NARRATIVE DESCRIPTION Potentially contaminated groundwater and surface water runoff may enter nearby man-made lakes and the adjacent New River. Potentially contaminated surface water may also seep into the groundwater during periods of recharge. No surface water sampling has been reported.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No potential - the site is inactive.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No potential - the site is inactive.

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000 + 04 NARRATIVE DESCRIPTION Area residents may come into contact with potentially contaminated on-site soil. Area residents may also come into direct contact with potentially contaminated surface water and groundwater used for irrigation and other purposes.

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 AREA POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION
(Acres)
A FDER inspector observed soil discoloration and evidence of past surface discharges suggesting possible contamination of on-site soil. No soil sampling has been reported.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000 + 04 NARRATIVE DESCRIPTION
Area residents are provided with drinking water from the Broward County system. Contamination of the municipal system is unlikely.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No potential - the site is inactive.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,000 + 04 NARRATIVE DESCRIPTION
Humans may be exposed to hazardous substances via contact with potentially contaminated groundwater used for irrigation and other purposes, on-site soil and surface water.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
FL	D057973646

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Contact with contaminants may damage plantlife.

01 ☒ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

Contact with contaminants may damage wildlife.

01 ☐ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Remote potential - these substances are not generally bioaccumulative.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
(Spills/runoff/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

An FDER inspector on 7/30/85 observed evidence of past spills of rinsewater and radiator coolant on the ground surface.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Surface water runoff may enter storm drains.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A FDER inspector on 7/30/85 observed evidence of possible past illegal discharges.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 10,000 +

IV. COMMENTS

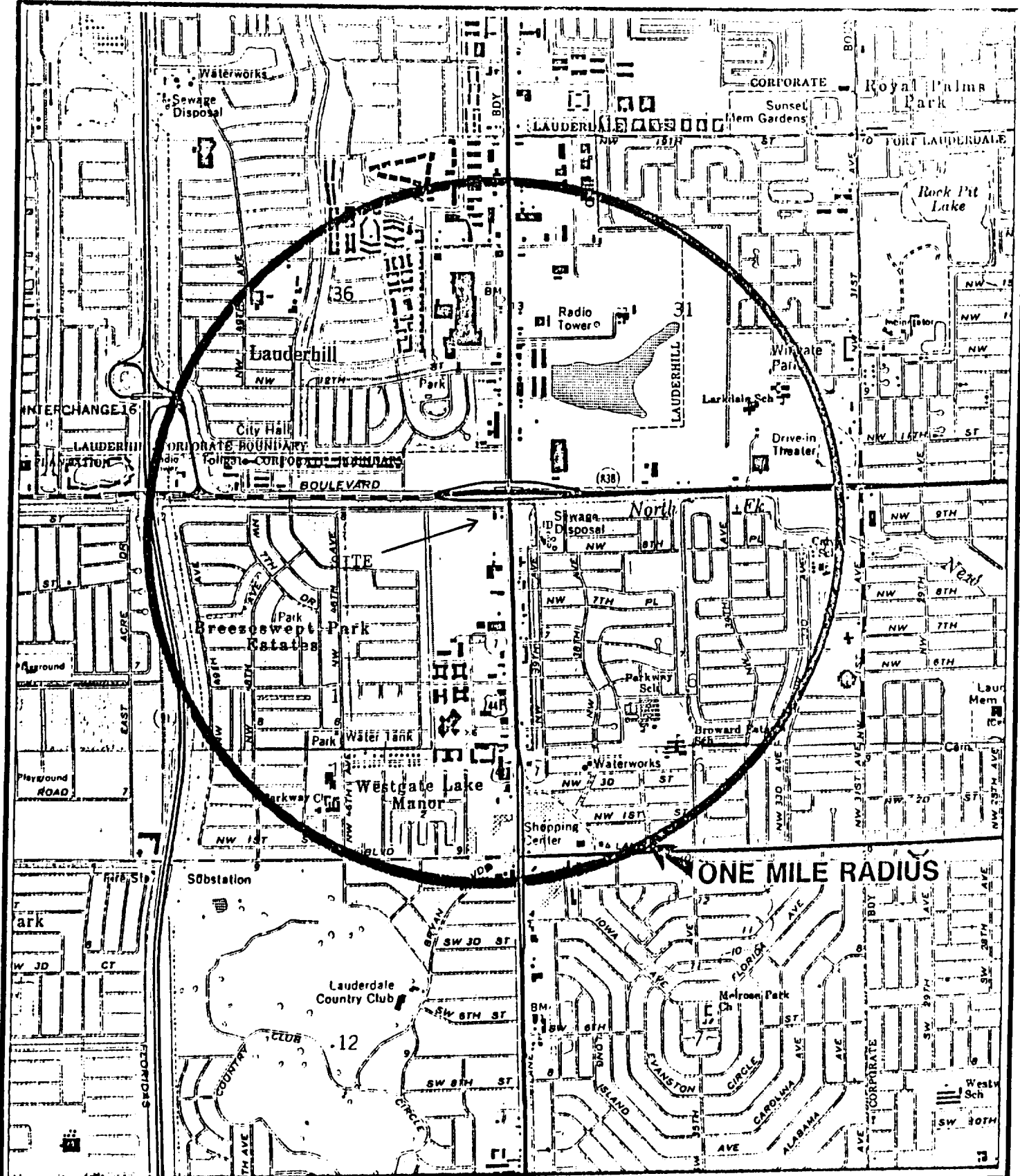
Although Broward County inspectors did not detect any county code violations during the period of operation (1979 & 1980), a FDER inspector noted an area of soil discoloration possibly indicating on-site soil contamination.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

See attached reference list.

STAGS AUTO RADIATOR
FLD057973646
ATTACHMENT A

<u>DATE</u>	<u>AGENCY</u>	<u>SAMPLE</u>	<u>COMMENT</u>
7/30/85	FDER	No	WindshIELD survey. Inspector observed evidence of possible past discharges of coolant and rinsewater.
7/2/80	BCEQCB	No	Facility inspection. No violations observed.
4/2/80	BCEQCB	No	Facility inspection. No violations observed.
1/3/80	BCEQCB	No	Facility inspection. No violations observed.
6/26/80	BCEQCB	No	Facility inspection. Inspector noted new location.



SCALE 1 : 24000

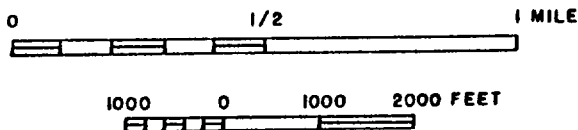


FIGURE 1 SITE LOCATION MAP

STAGS AUTO RADIATOR

BROWARD COUNTY, FLORIDA

USGS QUAD Ft. Lauderdale, North, Fl.
Ft. Lauderdale, South, Fl.

DATE 1983, 1983

ECJORDANCO

REFERENCE LIST

1. Environmental Protection Agency, Federal Register, National Oil and Hazardous Substances Contingency Plan, Part V, July 16, 1982.
2. Farm Chemicals Handbook, Willoughby, OH; Meister Publishing Company, 1982.
3. Florida Department of Environmental Regulation, The Sites List, Summary Status Report, July 1, 1983 - June 30, 1984.
4. Florida Department of Environmental Regulation, 3012 Folder, 2600 Blairstone Road, Tallahassee, Florida. To be used for completion of Preliminary Assessment, Form 2070-12.
5. Florida Department of Natural Resources, Water Resources of Broward County, Report of Investigation No. 65, 1973.
6. Florida Division of Geology, Chemical Quality of Waters of Broward County, Florida, Report of Investigations No. 51, 1968.
7. Florida Geological Survey, Biscayne Aquifer of Dade and Broward Counties, Florida, Report of Investigation No. 17, 1958.
8. Florida Geological Survey, Groundwater Resources of the Oakland Park Area of Eastern Broward County, Florida, Report of Investigation No. 20, 1959.
9. Health and Safety Plan, Florida 3012 Program, E.C. Jordan Co., June 1984.
10. Healy, Henry G., 1977, Public Water Supplies of Selected Municipalities in Florida, 1975: U.S. Geological Survey, Water-Resources Investigations 77-53, p. 309.
11. NUS Project for Performance of Remedial Response Activities at Uncontrolled Hazardous Substance Facilities--Zone 1. NUS Corporation, Superfund Division.
12. NUS Training Manual, Project for Performance of Remedial Response Activities at Uncontrolled Hazardous Substance Facilities--Zone 1, NUS Corporation, Superfund Division.
13. Sax, N. Irving, Dangerous Properties of Industrial Materials, Sixth Edition, Van Nostrand Reinhold Co., 1984.
14. TLVs Threshold Limit Values for Chemical Substances in the Work Environment Adopted by ACGIH for 1983-84, American Conference of Governmental Industrial Hygienists, ISBN: 0-936712-45-7, 1983.
15. U.S. Geological Survey, Topographic Map, 1-24,000 Series.
16. Windholz, M., ed. The Merck Index, an Encyclopedia of Chemicals and Drugs, Rahway, NJ: Merck and Company, Inc., 1976.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

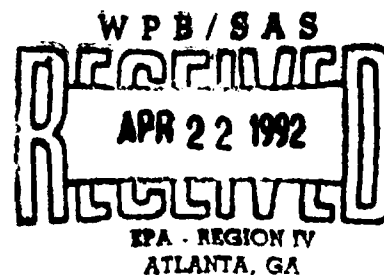
Carol M. Browner, Secretary

April 16, 1992

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

MR LESLIE MAGNUS
2804 NW 30TH AVE
LAUDERDALE LAKES, FL 33311

Re: Stags Auto Radiator, FLD057973646



Dear Mr. Magnus:

The Florida Department of Environmental Regulation, pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, and Florida Statutes, Chapter 403, is planning to conduct a Site Screening Investigation at the above-referenced site. FDER is conducting this work under the United States Environmental Protection Agency's (EPA) pre-remedial site investigation program which requires site screening activities to be completed at all sites identified on EPA's Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). EPA uses CERCLIS to identify sites suspected of contaminating the environment due to improper disposal of hazardous substances. The referenced site was included on CERCLIS in July, 1979.

The investigation planned at the site is being done independently from any enforcement or permit requirements normally addressed by our district office. The purpose of the investigation is to gather site specific information necessary to determine what, if any, further response action would be required to address possible contamination at the site. Please note the referenced site is not presently nor has it been recommended for inclusion on EPA's National Priorities List (NPL). The site screening investigation is the initial on-site mechanism utilized by EPA to identify those sites requiring extensive follow-up work to document a Hazardous Ranking System score which determines the eligibility for inclusion on the NPL.

Letter to Mr. Magnus
Page 2
April 16, 1992

This site investigation will consist of groundwater and soil sampling. If requested, arrangements will be made for splitting samples; however, you will be responsible for providing the sample bottles and subsequent analyses.

Enclosed for your review is a form for permission to enter the subject properties. Please sign and return it to me by April 23, 1992 or return it to the Project Manager on site at the time of the visit. We are tentatively planning to conduct our visit during the week of April 27, 1992. Please call us so we can discuss this matter further.

Your assistance and cooperation in this process are appreciated. If you have any questions concerning this matter or any conflicts, please call me or Joseph McGarrity at (904) 488-0190.

Sincerely,



Brian M. Moore
Environmental Specialist II
Bureau of Waste Cleanup

BMM/dd

Enclosure

cc: *Dorothy Rayfield, EPA
Paul Wierzbicki, Southeast District

PERMISSION TO ENTER PROPERTY DESCRIBED BELOW
TO CONDUCT SITE SCREENING INVESTIGATION OF:
Stags Auto Radiator, FLD057973646

- 1) _____ ("undersigned"), owner/operator, hereby gives permission to the State of Florida Department of Environmental Regulation ("Department") and its agents and contractors to enter the undersigned's property ("the property") located at 941 N.W. 40th Ave., Ft. Lauderdale, Broward County, Florida.
- 2) This permission is contemplated to be used for the following activities which may be performed by the Department, its agents, representatives or contractors:
 - a) Access to areas where contamination may exist;
 - b) The conducting of a soil, surface, sub-surface, air and groundwater investigation, including, but not limited to, the installation of groundwater monitoring wells, the use of an auger for collecting soil and sediment samples, the logging of existing wells, video taping site sketches, photographs and the like.
 - c) Collecting waste, soil, water and air samples.
 - d) Removal and disposal of contaminated soils and drums containing waste material.
 - e) To use on the property such equipment as is necessary to perform the above activities.
- 3) The granting of this permission by the undersigned is not intended, nor should it be construed, as an admission of liability on the part of the undersigned or the undersigned's successors and assigns for any contamination discovered on the property.
- 4) The Department, its agents, representatives or contractors may enter the property during normal business hours and may also make special arrangements to enter the property at other times after agreement from the undersigned.
- 5) The Department acknowledges and accepts its responsibility under applicable law (Section 768.28, Florida Statutes) for damages caused by the acts of its employees while on the property.

Witness

Owner/Operator

Date

Date

Accepted by the State of Florida Department of Environmental
Regulation by the following authorized agent:

Witness

Eric S. Nuzie,
Environmental Manager

Date

Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

2600 BLAIR STONE ROAD
TWIN TOWERS OFFICE BUILDING
TALLAHASSEE, FLORIDA 32399-2400

ADDRESS CHANGE REQUESTED

400207

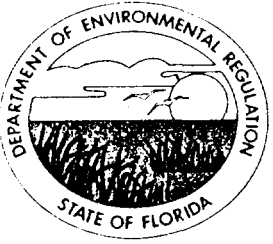
U S ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET N E

ATLANTA GEORGIA 30308

AAW: Dorothy Rayfield
Protecting Florida and Your Quality of Life



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

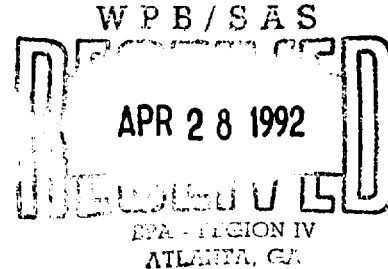
Lawton Chiles, Governor

April 21, 1992

Carol M. Browner, Secretary

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

MR LESLIE MANGUS
15250 NE 8TH AVE
MIAMI, FL 33162



Re: Stags Auto Radiator, FLD057973646

Dear Mr. Mangus:

The Florida Department of Environmental Regulation, pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, and Florida Statutes, Chapter 403, is planning to conduct a Site Screening Investigation at the above-referenced site. FDER is conducting this work under the United States Environmental Protection Agency's (EPA) pre-remedial site investigation program which requires site screening activities to be completed at all sites identified on EPA's Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). EPA uses CERCLIS to identify sites suspected of contaminating the environment due to improper disposal of hazardous substances. The referenced site was included on CERCLIS in July, 1979.

The investigation planned at the site is being done independently from any enforcement or permit requirements normally addressed by our district office. The purpose of the investigation is to gather site specific information necessary to determine what, if any, further response action would be required to address possible contamination at the site. Please note the referenced site is not presently nor has it been recommended for inclusion on EPA's National Priorities List (NPL). The site screening investigation is the initial on-site mechanism utilized by EPA to identify those sites requiring extensive follow-up work to document a Hazardous Ranking System score which determines the eligibility for inclusion on the NPL.

Letter to Mr. Mangus

Page 2

April 21, 1992

This site investigation will consist of groundwater and soil sampling. If requested, arrangements will be made for splitting samples; however, you will be responsible for providing the sample bottles and subsequent analyses.

Enclosed for your review is a form for permission to enter the subject properties. Please sign and return it to me by May 8, 1992. We are tentatively planning to conduct our sampling investigation during late May or early June 1992. You will be notified in advance of the date.

Your assistance and cooperation in this process are appreciated. If you have any questions concerning this matter or any conflicts, please call me or Joseph McGarrity at (904) 488-0190.

Sincerely,



Brian M. Moore
Environmental Specialist II
Bureau of Waste Cleanup

BMM/dd

Enclosure

cc: ~~X~~Dorothy Rayfield, EPA
Paul Wierzbicki, Southeast District

PERMISSION TO ENTER PROPERTY DESCRIBED BELOW
TO CONDUCT SITE SCREENING INVESTIGATION OF:
Stags Auto Radiator, FLD057973646

- 1) _____ ("undersigned"), owner/operator, hereby gives permission to the State of Florida Department of Environmental Regulation ("Department") and its agents and contractors to enter the undersigned's property ("the property") located at 941 N.W. 40th Ave., Ft. Lauderdale, Broward County, Florida.
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 - a) Access to areas where contamination may exist;
 - b) The conducting of a soil, surface, sub-surface, air and groundwater investigation, including, but not limited to, the installation of groundwater monitoring wells, the use of an auger for collecting soil and sediment samples, the logging of existing wells, video taping site sketches, photographs and the like.
 - c) Collecting waste, soil, water and air samples.
 - d) Removal and disposal of contaminated soils and drums containing waste material.
 - e) To use on the property such equipment as is necessary to perform the above activities.
- 3) The granting of this permission by the undersigned is not intended, nor should it be construed, as an admission of liability on the part of the undersigned or the undersigned's successors and assigns for any contamination discovered on the property.
- 4) The Department, its agents, representatives or contractors may enter the property during normal business hours and may also make special arrangements to enter the property at other times after agreement from the undersigned.
- 5) The Department acknowledges and accepts its responsibility under applicable law (Section 768.28, Florida Statutes) for damages caused by the acts of its employees while on the property.

Witness

Owner/Operator

Date

Date

Accepted by the State of Florida Department of Environmental
Regulation by the following authorized agent:

Brian M. Mon
Witness

Eric S. Nuzie
Eric S. Nuzie,
Environmental Manager

4/23/92
Date

4/23/92
Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
2600 BLAIR STONE ROAD
TWIN TOWERS OFFICE BUILDING
TALLAHASSEE, FLORIDA 32399-2400
ADDRESS CHANGE REQUESTED
400207

WPP

U S ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET N E
ATLANTA GEORGIA 30308

Mr. Dorothy Rayfield
Protecting Florida and Your Quality of Life

REGION: 04
STATE : FL

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 167
RUN DATE: 85/11/29
RUN TIME: 08:51:07

M.2 - SITE MAINTENANCE FORM

EPA ID:	FLD057978646	* ACTION: _	*
SITE NAME:	STAGS AUTO RADIATOR	SOURCE: R	* _ _ _ _ _
STREET:	941 NW 40TH AVENUE	CONG DIST: 12	* _ _ _ _ _
CITY:	FORT LAUDERDALE	ZIP: 89888	* _ _ _ _ _
CNTY NAME:	BROWARD	CNTY CODE: 011	* _ _ _ _ _
LATITUDE:	26/07/18.0	LONGITUDE: 080/13/36.0	* _/_/_ _/_/_
SMSA:	2680	HYDRO UNIT: 03090202	* _ _ _ _ _
INVENTORY IND:	Y	REMEDIAL IND:	Y
REMOVAL IND:	N	FED FAC IND:	N
NPL IND:	N	NPL LISTING DATE:	
NPL DELISTING DATE:			
APPROACH:		SITE CLASS:	
SITE/SPILL IDS:			
RPM NAME:	DENISE BLAND	RPM PHONE:	404-881-2284
DIOXIN TIER:		REG FLD1:	
REG FLD2:			
RESP TERM:	PENDING ()	NO FURTHER ACTION ()	
ENF DISP:	NO VIABLE RESP PARTY ()	VOLUNTARY RESPONSE ()	
ENFORCED RESPONSE ()	COST RECOVERY ()		
SITE DESCRIPTION:			

REGION: 04
STATE : FL

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 168
RUN DATE: 85/11/29
RUN TIME: 08:51:07

M.2 - PROGRAM MAINTENANCE FORM

SITE:	STAGS AUTO RADIATOR	* ACTION: _	*
EPA ID:	FLD057973646	PROGRAM CODE: H01	PROGRAM TYPE: _ *
PROGRAM QUALIFIER:	ALIAS LINK :	* _	*
PROGRAM NAME:	SITE EVALUATION	* _	*
DESCRIPTION:		* _	*
		* _	*
		* _	*
		* _	*
		* _	*

REGION: 04
STATE : FL

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 169
RUN DATE: 05/11/29
RUN TIME: 08:51:07

M.2 - EVENT MAINTENANCE FORM

* ACTION: _

SITE: STAGS AUTO RADIATOR
PROGRAM: SITE EVALUATION

EPA ID: FLD057978646 PROGRAM CODE: H01 EVENT TYPE: D81

FMS CODE: EVENT QUALIFIER: EVENT LEAD: E

EVENT NAME: DISCOVERY STATUS:

DESCRIPTION:

* _ _ _ _ _ *
* _ _ _ _ _ *
* _ _ _ _ _ *
* _ _ _ _ _ *

ORIGINAL

CURRENT

ACTUAL

START: START: START:
COMP : COMP : COMP : 79/07/01

* _/_/_ _/_/_ _/_/_ *
* _/_/_ _/_/_ _/_/_ *

HQ COMMENT:

* _ _ _ _ _ *

RG COMMENT:

* _ _ _ _ _ *

COOP AGR # AMENDMENT # STATUS STATE %

* _ _ _ _ _ *

REGION: 04
STATE : FL

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 170
RUN DATE: 85/11/29
RUN TIME: 08:51:07

M.2 - EVENT MAINTENANCE FORM

SITE: STAGS AUTO RADIATOR
PROGRAM: SITE EVALUATION

EPA ID: FLD057978646 PROGRAM CODE: H01 EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER: EVENT LEAD: 8

EVENT NAME: PRELIMINARY ASSESSMENT STATUS:

DESCRIPTION:

* ACTION: _

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ORIGINAL

CURRENT

ACTUAL

START: START: START: 85/09/23

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COMP : COMP : COMP : 85/09/23

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HQ COMMENT:

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RG COMMENT:

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COOP AGR # AMENDMENT # STATUS STATE X

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